

# Panasonic®

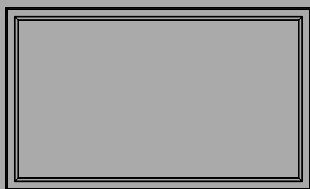
Model No.

**TH-42PF30U**

**TH-50PF30U**

## Operating Instructions

### High Definition Plasma Display



**English**

Before connecting, operating or adjusting this product,  
please read these instructions completely.  
Please keep this manual for future reference.

**HDMI**

	<b>CAUTION</b> <b>RISK OF ELECTRIC SHOCK</b> <b>DO NOT OPEN</b>	
<b>WARNING: To reduce the risk of electric shock, do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.</b>		



The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

**WARNING :** To prevent damage which may result in fire or shock hazard, do not expose this apparatus to rain or moisture.  
Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set. (including on shelves above, etc.)

**WARNING :** 1) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.  
2) Do not remove the grounding pin on the power plug. This apparatus is equipped with a three pin grounding-type power plug. This plug will only fit a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician.  
Do not defeat the purpose of the grounding plug.



As an ENERGY STAR® Partner, Panasonic has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

# Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments / accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.



# Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new Plasma Display.

To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

Retain your purchase receipt as well, and record the model number and serial number of your set in the space provided on the rear cover of these instructions.

Visit our Panasonic Web Site <http://panasonic.net>

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# FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## **FCC CAUTION:**

**To assure continued compliance, follow the attached installation instructions and use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this device.**

### FCC Declaration of Conformity

Model No. TH-42PF30U, TH-50PF30U

Responsible Party: Panasonic Corporation of North America  
Three Panasonic Way 2F-5, Secaucus, NJ 07094  
Contact Source: Panasonic Solutions Company  
Panasonic Plasma Concierge 1-800-973-4390

## **CANADIAN NOTICE:**

This Class B digital apparatus complies with Canadian ICES-003.

## **Note:**

Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

## **Trademark Credits**

- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Inc., USA.
- SVGA, XGA, SXGA and UXGA are registered trademarks of the Video Electronics Standard Association.  
Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.
- HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

# Safety Precautions

## CAUTION

**This Plasma Display is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.**

(All of the following accessories are manufactured by Panasonic Corporation.)

- Speakers ..... TY-SP42P8W-K (for TH-42PF30U)  
TY-SP50P8W-K (for TH-50PF30U)
- Pedestal ..... TY-ST20-K
- Mobile stand ..... TY-ST58PF20
- Wall-hanging bracket (vertical) ..... TY-WK42PV20
- Wall-hanging bracket (angled) ..... TY-WK42PR20
- Ceiling-hanging bracket ..... TY-CE42PS20
- BNC Dual Video Terminal Board ..... TY-FB9BD
- HD-SDI Terminal Board with audio ..... TY-FB10HD
- Dual Link HD-SDI Terminal Board ..... TY-FB11DHD
- Dual HD-SDI Terminal Board for 3D ..... TY-FB30DHD3D
- Dual HDMI Terminal Board ..... TY-FB10HMD
- DVI-D Terminal Board ..... TY-FB11DD
- Dual DVI-D Terminal Board for 3D ..... TY-FB30DD3D
- Ir Through Terminal Board ..... TY-FB9RT
- Mate-IF Board ..... TY-FB11HB
- AV Terminal Box ..... TY-TB10AV
- 3D IR TRANSMITTER ..... TY-3D30TRW
- Anti Glare Filter ..... TY-AR42P12W (for TH-42PF30U), TY-AR50P12W (for TH-50PF30U)
- Touch Panel ..... TY-TP42P10S (for TH-42PF30U), TY-TP50P10S (for TH-50PF30U)

Always be sure to ask a qualified technician to carry out set-up.

Small parts can present choking hazard if accidentally swallowed. Keep small parts away from young children. Discard unneeded small parts and other objects, including packaging materials and plastic bags/sheets to prevent them from being played with by young children, creating the potential risk of suffocation.

### ■ When using the Plasma Display

**Do not bring your hands, face or objects close to the ventilation holes of the Plasma Display.**

- Top of the Plasma Display is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries can happen if any body parts are brought too close. Placing any object near the top of the display could also result in heat damages to the object as well as to the Display if its ventilation holes are blocked.

**Be sure to disconnect all cables before moving the Plasma Display.**

- Moving the Display with its cables attached might damage the cables which, in turn, can cause fire or electric shock.

**Disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.**

- Electric shocks can result if this is not done.

**Clean the power cable regularly to prevent it from becoming dusty.**

- Built-up dust on the power cord plug can increase humidity which might damage the insulation and cause fire. Unplug the cord from the wall outlet and clean it with a dry cloth.

**This Plasma Display radiates infrared rays, therefore it may affect other infrared communication equipment. Install your infrared sensor in a place away from direct or reflected light from your Plasma Display.**

#### **Note:**

Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

## WARNING

### ■ Setup

**Do not place the Plasma Display on sloped or unstable surfaces, and ensure that the Plasma Display does not hang over the edge of the base.**

- The Plasma Display may fall off or tip over.

**Do not place any objects on top of the Plasma Display.**

- If water spills onto the Plasma Display or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma Display, please consult an Authorized Service Center.

**Do not cover the ventilation holes.**

- Doing so may cause the Plasma Display to overheat, which can cause fire or damage to the Plasma Display.

**Transport only in upright position!**

- Transporting the unit with its display panel facing upright or downward may cause damage to the internal circuitry.

**If using the pedestal (optional accessory), leave a space of 3 15/16" (10 cm) or more at the top, left and right, and 2 3/4" (7 cm) or more at the rear, and also keep the space between the bottom of the display and the floor surface. If using some other setting-up method, follow the manual of it. (If there is no specific indication of installation dimension in the installation manual, leave a space of 3 15/16" (10 cm) or more at the top, bottom, left and right, and 2 3/4" (7 cm) or more at the rear.)**

**When installing the Plasma Display vertically;**

Turn up the power switch for the upward direction when you install the Plasma Display vertically.

And set "DISPLAY ORIENTATION" to "PORTRAIT" in SET UP menu. (see page 44)

**An apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earthing connection.**

### ■ AC Power Supply Cord

**The Plasma Display is designed to operate on 110 - 127 V AC, 50/60 Hz.**

**Ensure that the mains plug is easily accessible.**

**Do not use any power supply cord other than that provided with this unit.**

- Doing so may cause fire or electric shocks.

**Securely insert the power cord plug as far as it will go.**

- If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they should not be used.

**Do not handle the power cord plug with wet hands.**

- Doing so may cause electric shocks.

**Do not do anything that might damage the power cable. When disconnecting the power cable, hold the plug, not the cable.**

- Do not make any modifications, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damage to the power cable which can cause fire or electric shock. If damage to the cable is suspected, have it repaired at an Authorized Service Center.

**If the Plasma Display will not be used for a long period of time, unplug the power cord from the wall outlet.**

### ■ If problems occur during use

**If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the Plasma Display, unplug the power cord immediately.**

- Continuous use of the Display under these conditions might cause fire or permanent damage to the unit. Have the Display evaluated at an Authorized Service Center. Services to the Display by any unauthorized personnel are strongly discouraged due to its high voltage dangerous nature.

**If water or foreign objects get inside the Plasma Display, if the Plasma Display is dropped, or if the cabinet becomes damaged, disconnect the power cord plug immediately.**

- A short may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.

## Maintenance

**The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.**

- If the surface is particularly dirty, wipe with a soft, lint-free cloth which has been soaked in pure water or water in which neutral detergent has been diluted 100 times, and then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects, otherwise the surface may become damaged. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the surface may be adversely affected.

**If the cabinet becomes dirty, wipe it with a soft, dry cloth.**

- If the cabinet is particularly dirty, soak the cloth in water to which a small amount of neutral detergent has been added and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma Display. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

### 3D Safety Precautions

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#### **WARNING**

##### ■ Small Parts

3D Eyewear contains small parts (battery and specialised band, etc.) and must be kept out of reach of small children to avoid accidental ingestion.

##### ■ Disassembly

Do not disassemble or modify the 3D Eyewear.

##### ■ Lithium Battery

Batteries must not be exposed to excessive heat such as sunshine, fire or the like.



#### **CAUTION**

To enjoy 3D images safely and comfortably, please read these instructions fully.

##### ■ Use for commercial applications and public viewing

Someone in authority should responsibly convey the precautions for use of the 3D Eyewear to the user.

##### ■ 3D Eyewear

Do not drop, exert pressure on, or step on the 3D Eyewear.

Always store the 3D Eyewear in the case provided when not in use.

Be careful of the tips of the frame when putting on the 3D Eyewear.

Be careful not to trap a finger in the hinge section of the 3D Eyewear.

Pay special attention when children are using the 3D Eyewear.

3D Eyewear should not be used by children younger than 5 - 6 years old, as a guideline.

All children must be fully supervised by parents or guardians who must ensure their safety and health throughout the using 3D Eyewear.



## ■ Viewing 3D Content

Content for 3D viewing includes commercially available Blu-ray discs, 3D broadcasts, etc. When preparing your own 3D content, ensure that it is properly produced.

Do not use the 3D Eyewear if you have a history of over-sensitivity to light, heart problems, or have any other existing medical conditions.

Please stop using the 3D Eyewear immediately, if you feel tired, are not feeling well or experience any other uncomfortable sensation.

Take an appropriate break after viewing a 3D movie.

Take a break of between 30 - 60 minutes after viewing 3D content on interactive devices such as 3D games or computers.

Be careful not to strike the screen or other people unintentionally. When using the 3D Eyewear the distance between the user and screen can be misjudged.

The 3D Eyewear must only be worn when viewing 3D content.

If you do not look toward the screen for a while when viewing 3D images, the 3D Eyewear may be turned off automatically.

If you suffer from any eyesight problems (short / far-sighted, astigmatism, eyesight differences in left and right), please ensure to correct your vision before using the 3D Eyewear.

Stop using the 3D Eyewear if you can clearly see double images when viewing 3D content.

Do not use the 3D Eyewear at a distance less than the recommended distance.

View from at least the recommended distance (3 times the effective height of the screen).

Recommended distance

TH-42PF30U: 63.0"/1.6 m

TH-50PF30U: 74.9"/1.9 m

When the top and bottom area of the screen is blackened, such as movies, view the screen at a distance 3 times further than the height of the actual image. (That makes the distance closer than above recommended figure.)

## ■ 3D Eyewear Use

Before using the 3D Eyewear, ensure no breakable objects surrounding the user to avoid any accidental damage or injury.

Remove the 3D Eyewear before moving around to avoid falling or accidental injury.

Always put the 3D Eyewear in the case (supplied) after use.

Use the 3D Eyewear only for the intended purpose and nothing else.

Do not use 3D Eyewear in the condition of high temperature.

Do not use if the 3D Eyewear is physically damaged.

Do not use any devices that emit the infrared signals near the 3D Eyewear, as this may cause the 3D Eyewear false operations.

Do not use devices (such as mobile phones or personal transceivers) that emit strong electromagnetic waves near the 3D Eyewear as this may cause the 3D Eyewear to malfunction.

Stop using the 3D Eyewear immediately if a malfunction or fault occurs.

Stop using the 3D Eyewear immediately if you experience any redness, pain, or skin irritation around the nose or temples.

In rare cases, the materials used in the 3D Eyewear may cause an allergic reaction.

## ■ Lithium Battery

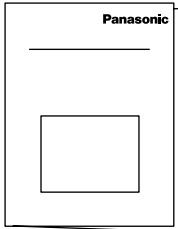
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

# Accessories

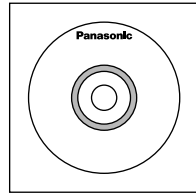
## Accessories Supplied

Check that you have the Accessories and items shown

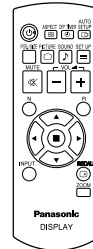
Operating Instruction book



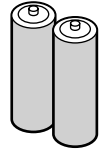
CD-ROM (Operating instructions)



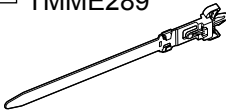
Remote Control Transmitter N2QAYB000535



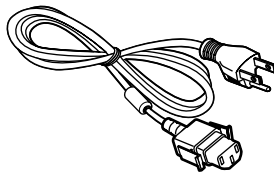
Batteries for the Remote Control Transmitter (AA Size × 2)



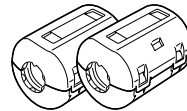
Clamper × 1 TMME289



AC cord



Ferrite core × 2 J0KG00000014

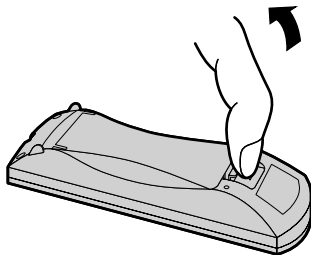


Use the Ferrite cores to comply with the EMC standard. (see page 61)

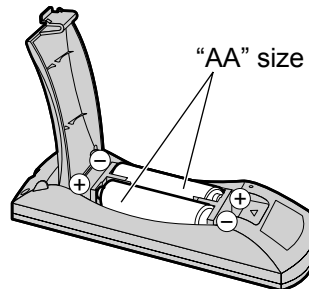
## Remote Control Batteries

Requires two AA batteries.

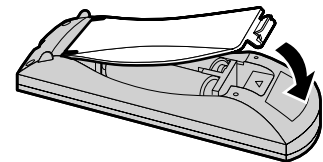
1. Pull and hold the hook, then open the battery cover.



2. Insert batteries - note correct polarity (+ and -).



3. Replace the cover.



### Helpful Hint:

For frequent remote control users, replace old batteries with Alkaline batteries for longer life.

### ⚠️ Precaution on battery use

Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter. Disposal of batteries should be in an environment-friendly manner.

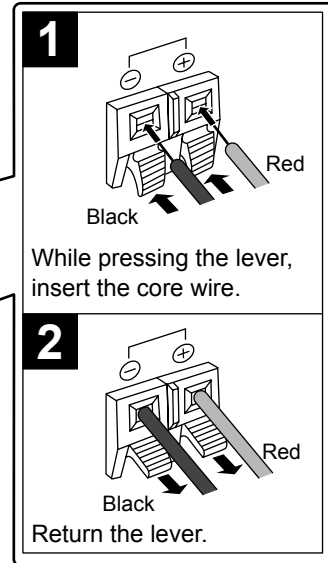
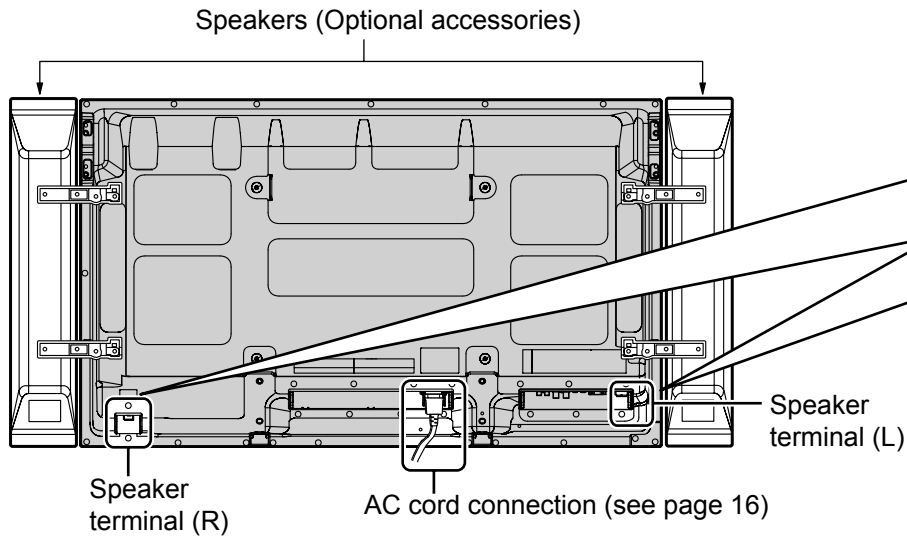
#### Observe the following precautions:

1. Batteries should always be replaced as a pair. Always use new batteries when replacing the old set.
2. Do not combine a used battery with a new one.
3. Do not mix battery types (example: "Zinc Carbon" with "Alkaline").
4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
5. Battery replacement is necessary when the remote control acts sporadically or stops operating the Plasma Display.
6. Do not burn or breakup batteries.  
Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

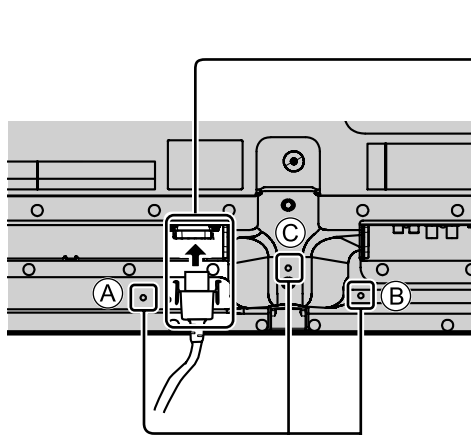
# Connections

## Speaker connection

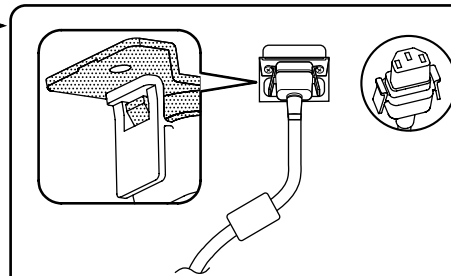
When connecting the speakers, be sure to use only the optional accessory speakers. Refer to the speaker's Installation Manual for details on speaker installation.



## AC cord connection and fixing, cable fixing

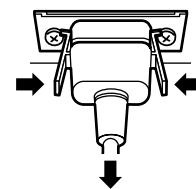


### AC cord fixing



**Plug the AC cord into the display unit.**  
Plug the AC cord until it clicks.  
**Note:**  
Make sure that the AC cord is locked on both the left and right sides.

### Unplug the AC cord



Unplug the AC cord pressing the two knobs.  
**Note:**  
When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.

### When using the Wall-hanging bracket (vertical)

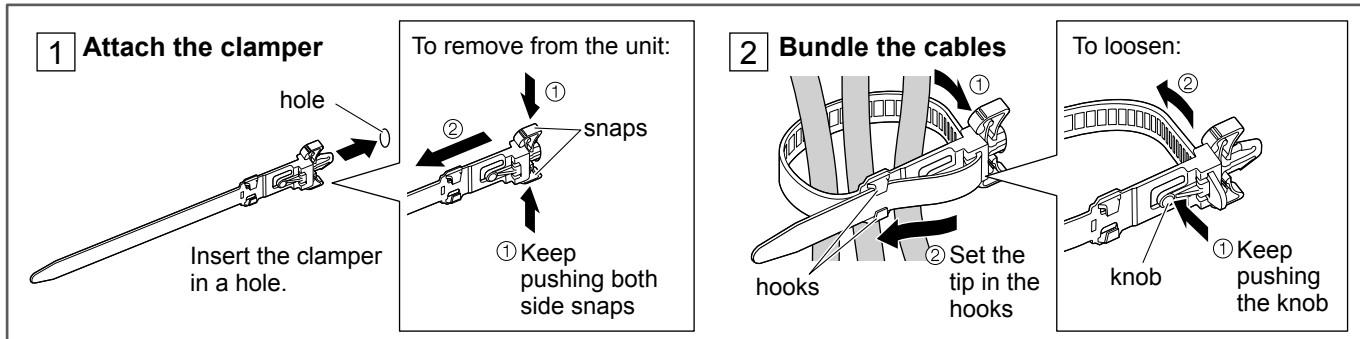
**Note:**  
When using the Wall-hanging bracket (vertical) (TY-WK42PV20), use the holes (A) and (B) to secure the cables. If the clammer is used on the hole (C), the cables may be caught by the wall-hanging bracket.

### Using the clammer

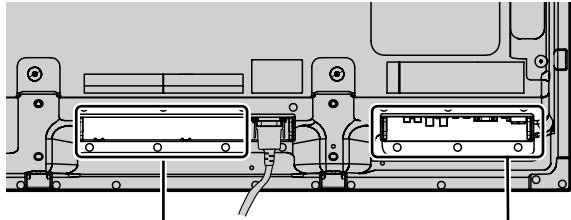
Secure any excess cables with clammer as required.

#### **Note:**

One clammer is supplied with this unit. In case of securing cables at three positions, please purchase it separately.



# Video equipment connection

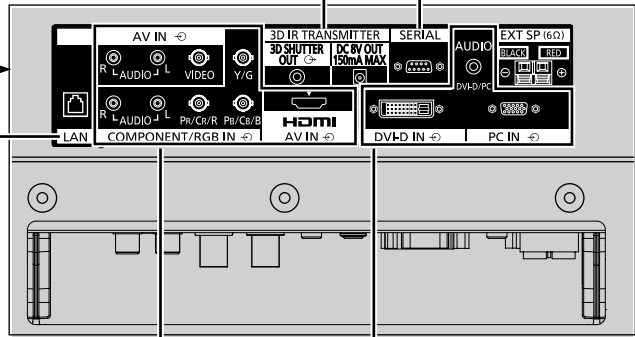


**SLOT:** Terminal board (optional accessories) insert slot (see page 6)

**Note:**  
The right side slot is for terminal board with 2-slot width. The terminal board with 1-slot width does not function when installed in the right side slot.

**3D IR TRANSMITTER:**  
Connect the 3D IR TRANSMITTER (optional accessory).

**SERIAL:**  
Control the Plasma Display by connecting to PC. (see page 15)



Terminals are on the bottom side of the Plasma Display.

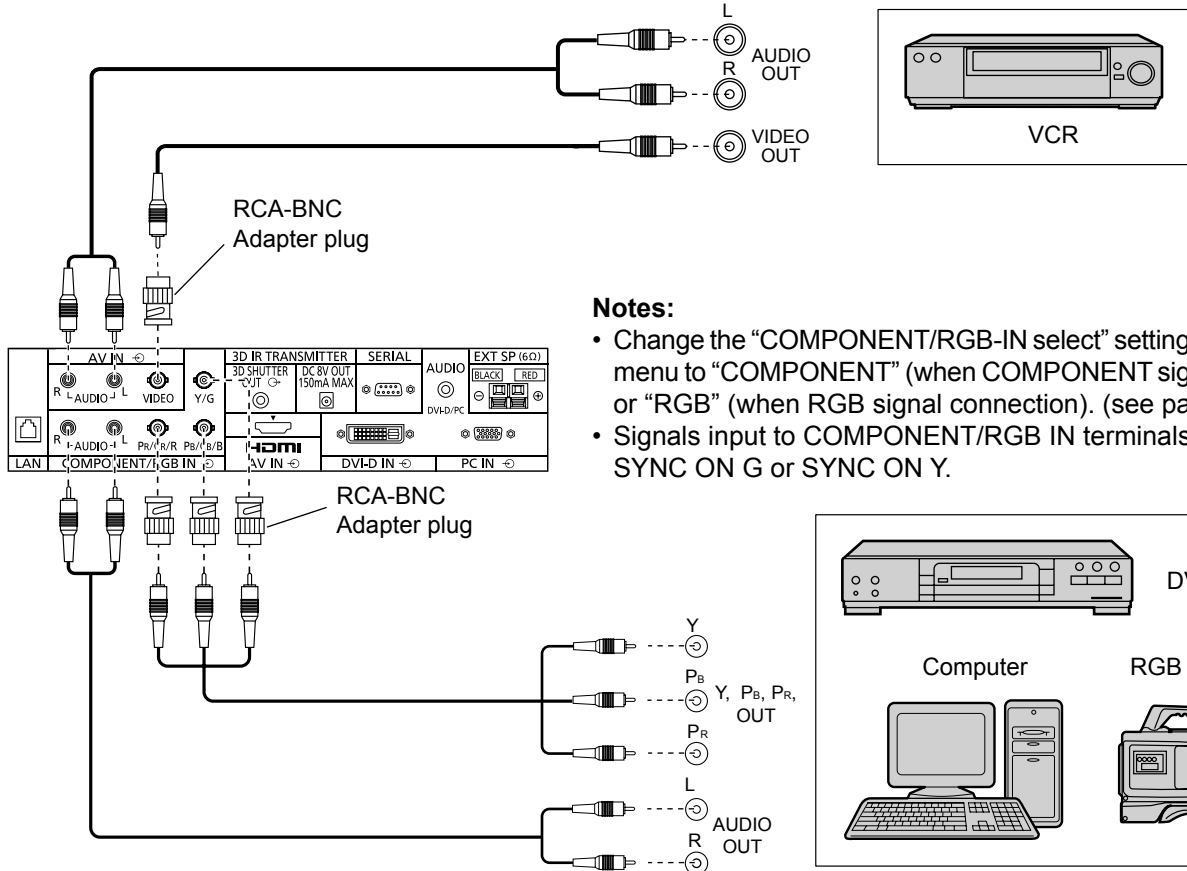
**LAN:** Connect to a network to control the unit. (see page 61)

**AV IN (VIDEO):** Composite Video Input Terminal (see below)  
**COMPONENT/RGB IN:** Component/RGB Video Input Terminal (see below)  
**AV IN (HDMI):** HDMI Input Terminal (see page 13)  
 Connect to video equipment such as VCR or DVD player.

**DVI-D IN:** DVI-D Input Terminal (see page 13)  
**PC IN:** PC Input Terminal  
 Connect to video terminal of PC or equipment with Y, P<sub>B</sub>(C<sub>B</sub>) and P<sub>R</sub>(C<sub>R</sub>) output. (see page 14)

## VIDEO and COMPONENT / RGB IN connection

**Note:**  
Additional equipment, cables and adapter plugs shown are not supplied with this set.

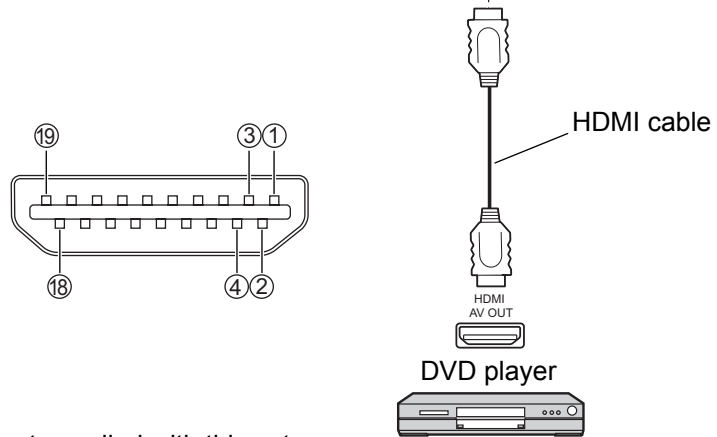
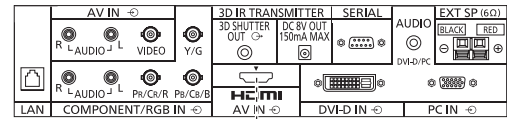


- Notes:**
- Change the "COMPONENT/RGB-IN select" setting in the "SETUP" menu to "COMPONENT" (when COMPONENT signal connection) or "RGB" (when RGB signal connection). (see page 49)
  - Signals input to COMPONENT/RGB IN terminals correspond to SYNC ON G or SYNC ON Y.

# HDMI connection

[Pin assignments and signal names]

Pin No.	Signal Name	Pin No.	Signal Name
①	T.M.D.S Data2+	⑪	T.M.D.S Clock Shield
②	T.M.D.S Data2 Shield	⑫	T.M.D.S Clock-
③	T.M.D.S Data2-	⑬	CEC
④	T.M.D.S Data1+	⑭	Reserved (N.C. on device)
⑤	T.M.D.S Data1 Shield		
⑥	T.M.D.S Data1-	⑮	SCL
⑦	T.M.D.S Data0+	⑯	SDA
⑧	T.M.D.S Data0 Shield	⑰	DDC/CEC Ground
⑨	T.M.D.S Data0-	⑱	+5V Power
⑩	T.M.D.S Clock+	⑲	Hot Plug Detect

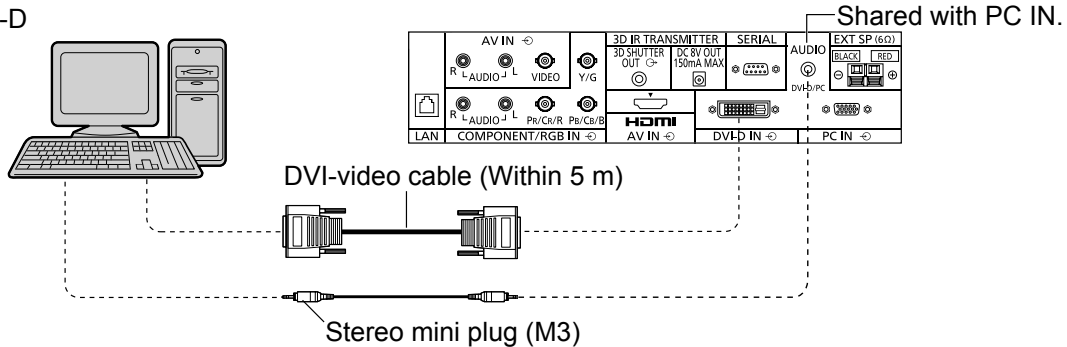


**Note:**

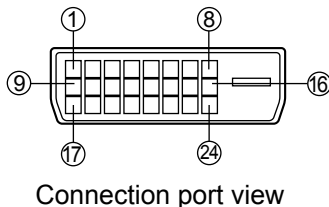
Additional equipment and HDMI cable shown are not supplied with this set.

# DVI-D IN connection

PC with DVI-D video out



**DVI-D Input Connector Pin Layouts**

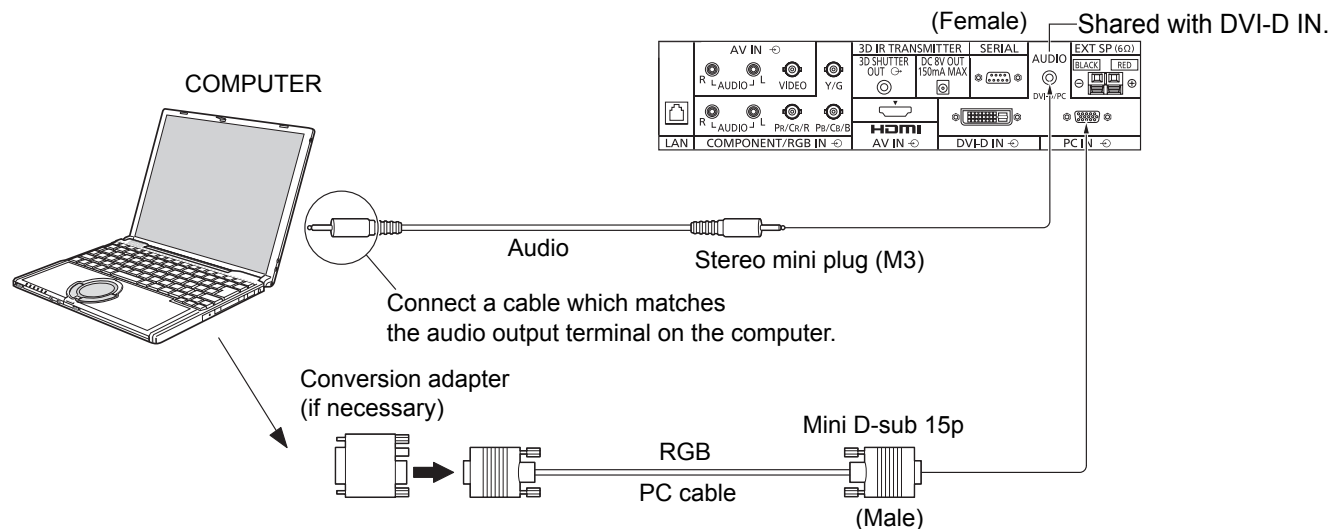


Pin No.	Signal Name	Pin No.	Signal Name
①	T.M.D.S. data 2-	⑬	_____
②	T.M.D.S. data 2+	⑭	+5 V DC
③	T.M.D.S. data 2 shield	⑮	Ground
④	_____	⑯	Hot plug detect
⑤	_____	⑰	T.M.D.S. data 0-
⑥	DDC clock	⑱	T.M.D.S. data 0+
⑦	DDC data	⑲	T.M.D.S. data 0 shield
⑧	_____	⑳	_____
⑨	T.M.D.S. data 1-	㉑	_____
⑩	T.M.D.S. data 1+	㉒	T.M.D.S. clock shield
⑪	T.M.D.S. data 1 shield	㉓	T.M.D.S. clock+
⑫	_____	㉔	T.M.D.S. clock-

**Notes:**

- Additional equipment and cables shown are not supplied with this set.
- Use the DVI-D cable complying with the DVI standard. Image deterioration may occur depending on the length or the quality of the cable.

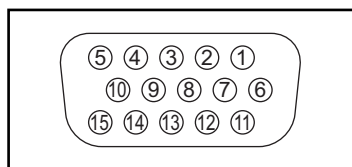
## PC Input Terminals connection



### Notes:

- With regard to the typical PC input signals that are described in the applicable input signals list (see page 68), adjustment values such as for the standard picture positions and sizes have already been stored in this unit. You can add up to eight PC input signal types that are not included in the list.
- Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
- The display resolution is a maximum of 1,440 × 1,080 dots when the aspect mode is set to “4:3”, and 1,920 × 1,080 dots when the aspect mode is set to “FULL”. If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.
- The PC input terminals are DDC2B-compatible. If the computer being connected is not DDC2B-compatible, you will need to make setting changes to the computer at the time of connection.
- Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with DOS/V compatible Mini D-sub 15P terminal.
- The computer shown in the illustration is for example purposes only.
- Additional equipment and cables shown are not supplied with this set.
- Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.
- Component Input is possible with the pin 1, 2, 3 of the Mini D-sub 15P Connector.
- Change the “COMPONENT/RGB-IN SELECT” setting in the “SET UP” menu to “COMPONENT” (when COMPONENT signal connection) or “RGB” (when RGB signal connection). (see page 49)

### Signal Names for Mini D-sub 15P Connector



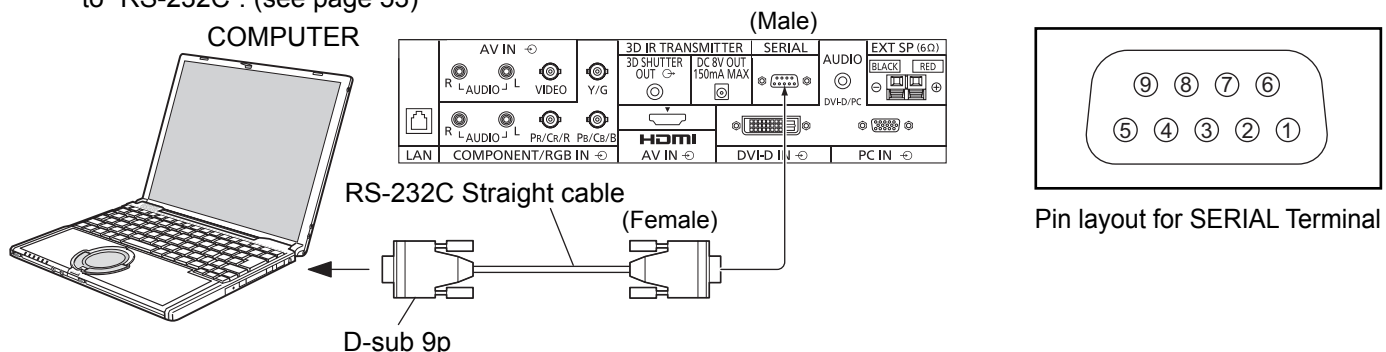
Pin Layout for PC Input Terminal

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R (P <sub>R</sub> /C <sub>R</sub> )	⑥	GND (Ground)	⑪	NC (not connected)
②	G (Y)	⑦	GND (Ground)	⑫	SDA
③	B (P <sub>B</sub> /C <sub>B</sub> )	⑧	GND (Ground)	⑬	HD/SYNC
④	NC (not connected)	⑨	+5 V DC	⑭	VD
⑤	GND (Ground)	⑩	GND (Ground)	⑮	SCL

# SERIAL Terminals connection

The SERIAL terminal is used when the Plasma Display is controlled by a computer.

**Note:** To use serial control for this unit, make sure to set the "CONTROL I/F SELECT" in the "NETWORK SETUP" menu to "RS-232C". (see page 53)



**Notes:**

- Use the RS-232C straight cable to connect the computer to the Plasma Display.
- The computer shown is for example purposes only.
- Additional equipment and cables shown are not supplied with this set.

The SERIAL terminal conforms to the RS-232C interface specification, so that the Plasma Display can be controlled by a computer which is connected to this terminal.

The computer will require software which allows the sending and receiving of control data which satisfies the conditions given below. Use a computer application such as programming language software. Refer to the documentation for the computer application for details.

**Signal names for D-sub 9P connector**

Pin No.	Details
②	R X D
③	T X D
⑤	GND
④ • ⑥	Non use
⑦ ⑧	(Shorted in this set)
① • ⑨	NC

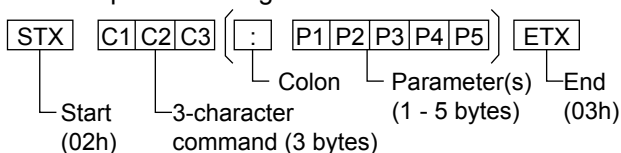
These signal names are those of computer specifications.

**Communication parameters**

Signal level	RS-232C compliant
Synchronization method	Asynchronous
Baud rate	9600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
Flow control	-

**Basic format for control data**

The transmission of control data from the computer starts with a STX signal, followed by the command, the parameters, and lastly an ETX signal in that order. If there are no parameters, then the parameter signal does not need to be sent.



**Notes:**

- If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.
- If an incorrect command is sent by mistake, this unit will send an "ER401" command back to the computer.
- S1A and S1B of Command IMS are available only when a dual input terminal board is attached.

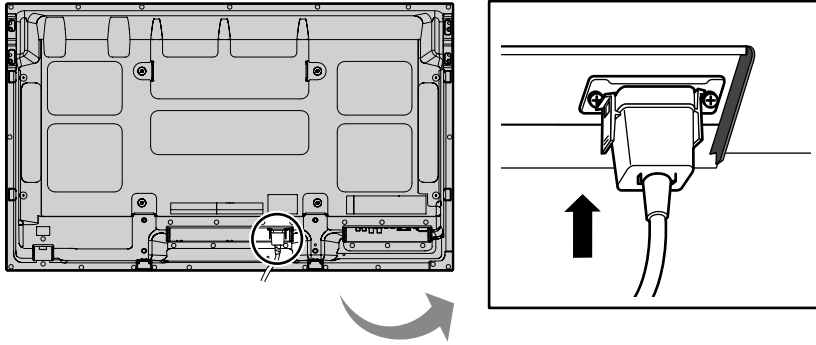
**Command**

Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	**	Volume 00 - 63
AMT	0	Audio MUTE OFF
	1	Audio MUTE ON
IMS	None	Input select (toggle)
	SL1	SLOT input (SLOT INPUT)
	S1A	SLOT input (SLOT INPUT A)
	S1B	SLOT input (SLOT INPUT B)
	VD1	VIDEO input (VIDEO)
	YP1	COMPONENT/RGB IN input (COMPONENT)
	HM1 DV1 PC1	HDMI input (HDMI) DVI-D IN input (DVI) PC IN input (PC)
DAM	None	Screen mode select (toggle)
	ZOOM	ZOOM (For Video/SD/PC signal)
	FULL	FULL
	JUST	JUST (For Video/SD signal)
	NORM	4:3 (For Video/SD/PC signal)
	SJST	JUST (For HD signal)
	SNOM	4:3 (For HD signal)
	SFUL	H-FILL (For HD signal)
ZOM2	ZOOM (For HD signal)	

With the power off, this display responds to PON command only.

# Power ON / OFF

## Connecting the AC cord plug to the Plasma Display.



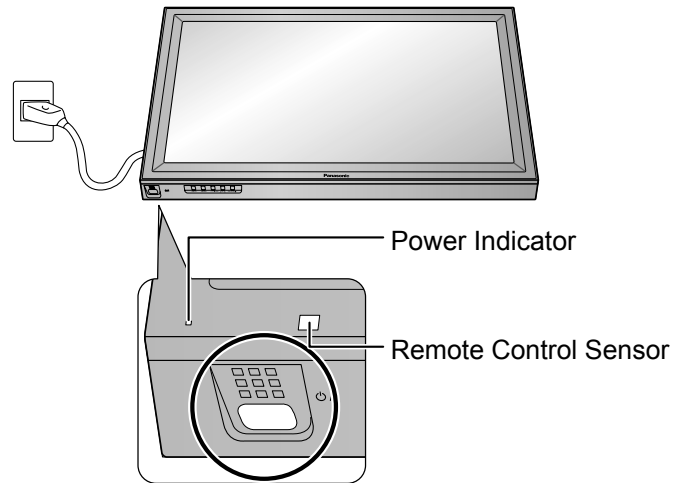
## Connecting the plug to the Wall Outlet.


### Note:

When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.


Press the Power switch on the Plasma Display to turn the set on: Power-On.

Power Indicator: Green




Press the  button on the remote control to turn the Plasma Display off.

Power Indicator: Red (standby)

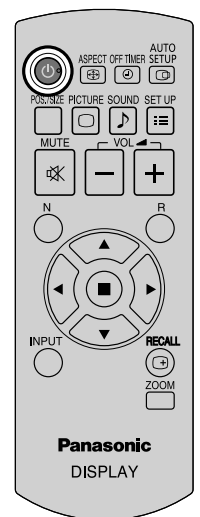
Press the  button on the remote control to turn the Plasma Display on.

Power Indicator: Green

Turn the power to the Plasma Display off by pressing the /I switch on the unit, when the Plasma Display is on or in standby mode.

### Note:

During operation of the power management function, the power indicator turns orange in the power off state.

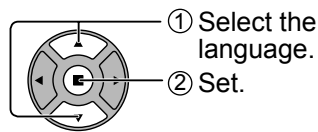




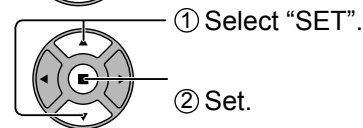
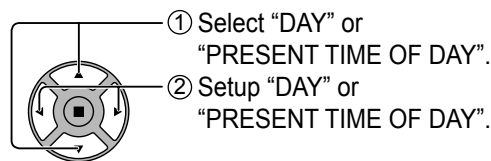
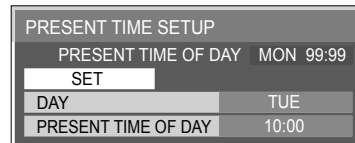
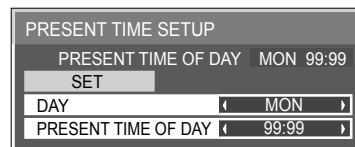
**When first switching on the unit**

Following screen will be displayed when the unit is turned on for the first time. Select the items with the remote control. Unit buttons are invalid.

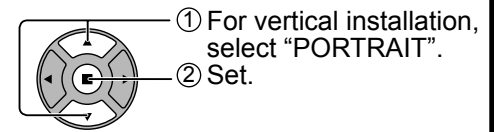
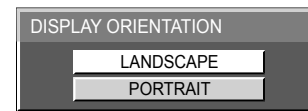
**OSD LANGUAGE**



**PRESENT TIME SETUP**



**DISPLAY ORIENTATION**



**Notes:**

- Once the items are set, the screens won't be displayed when switching on the unit next time.
- After the setting, the items can be changed in the following menus.  
 OSD LANGUAGE (see page 44)  
 PRESENT TIME SETUP (see page 35)  
 DISPLAY ORIENTATION (see page 44)

**Power ON warning message**

The following message may be displayed when turning the unit power ON:

**3D Safety Precautions**

When 3D images will be viewed by unspecified number of people or used for commercial applications, someone in authority should convey the following precautions. These precautions should be followed in the home as well.

To enjoy 3D images safely and comfortably, please refer to the Operating Instructions for in-depth description. Please refrain from viewing 3D images if you do not feel well or are experiencing visual fatigue.

Activate 3D Safety Precautions if you deliver 3D images to unspecified audiences for business or other purposes. If "3D EYEWEAR" in "3D SETTINGS" is set to "ON", a warning message is displayed every time the power is turned ON. (see page 36)

**No activity power off Precautions**

'NO ACTIVITY POWER OFF' IS ENABLED.

If "NO ACTIVITY POWER OFF" in SET UP menu is set to "ENABLE", a warning message is displayed every time the power is turned ON. (see page 42)

These message displays can be set with the following menu: Options menu

- 3D Safety Precautions (see page 57)
- Power On Message (see page 56)

# Selecting the input signal

INPUT



Press to select the input signal to be played back from the equipment which has been connected to the Plasma Display.

Input signals will change as follows:

→ PC → VIDEO → COMPONENT\* → HDMI → DVI

VIDEO: Video input terminal in AV IN (VIDEO).

COMPONENT\*: Component or RGB input terminal in COMPONENT/RGB IN.

HDMI: HDMI input terminal in AV IN (HDMI).

DVI: DVI input terminal in DVI-D IN.

PC: PC input terminal in PC IN.

\* "COMPONENT" may be displayed as "RGB" depending on the setting of "COMPONENT/RGB-IN SELECT". (see page 49)

When an optional Terminal Board is installed:

→ PC → SLOT INPUT → VIDEO → COMPONENT → HDMI → DVI

SLOT INPUT: Input terminal in Terminal Board

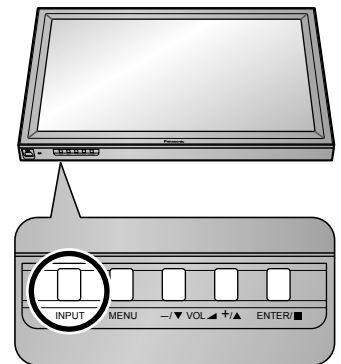
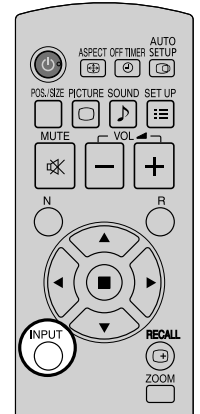
**Note:**

When a Terminal Board incompatible with the Plasma Display is installed, "NON-COMPATIBLE FUNCTION BOARD" is displayed.

When a Terminal Board with dual input terminals is installed:

→ PC → SLOT INPUT A → SLOT INPUT B → VIDEO → COMPONENT → HDMI → DVI

SLOT INPUT A, SLOT INPUT B: Dual input terminal in Terminal Board.

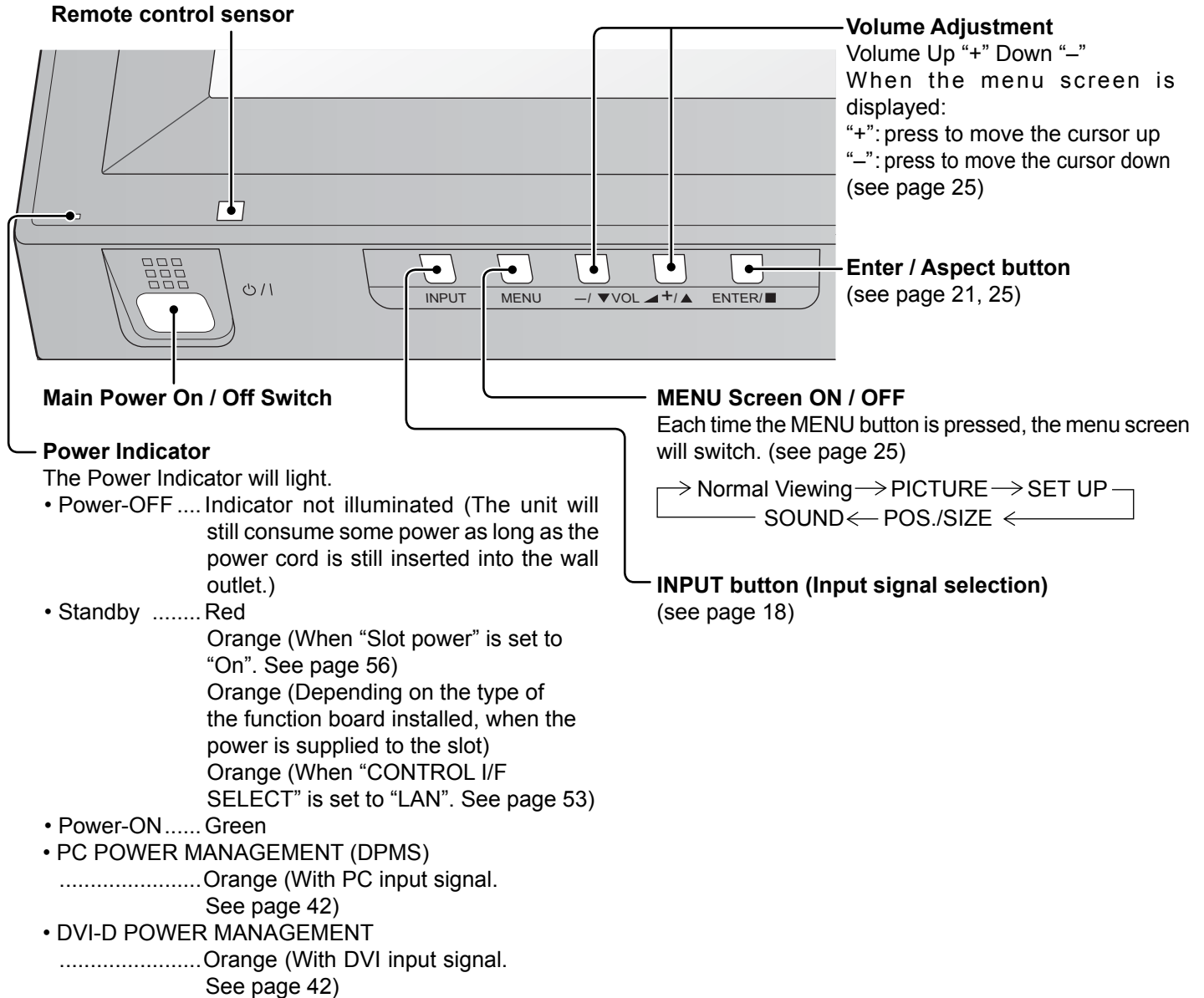


**Notes:**

- Selecting is also possible by pressing the INPUT button on the unit.
- Outputs the sound as set in "Audio input select" in the Options menu. (see page 59)
- Select to match the signals from the source connected to the component/RGB input terminals. (see page 49)
- Image retention (image lag) may occur on the plasma display panel when a still picture is kept on the panel for an extended period. The function that darkens the screen slightly is activated to prevent image retention (see page 66), but this function is not the perfect solution to image retention.

# Basic Controls

## Main Unit



## Remote Control Transmitter

### ACTION button

Press to make selections.

### ASPECT button

Press to adjust the aspect.  
(see page 21)

### Standby (ON / OFF) button

The Plasma Display must first be plugged into the wall outlet and turned on at the power switch (see page 16). Press this button to turn the Plasma Display On, from Standby mode. Press it again to turn the Plasma Display Off to Standby mode.

### POS./SIZE button

(see page 26)

### PICTURE button

(see page 29)

### Sound mute On / Off

Press this button to mute the sound. Press again to reactivate sound. Sound is also reactivated when power is turned off or volume level is changed.

### N button

(see page 28, 29, 30, 34)

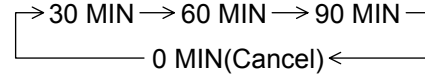
### POSITION buttons

### INPUT button

Press to select input signal sequentially.  
(see page 18)

### OFF TIMER button

The Plasma Display can be preset to switch to standby after a fixed period. The setting changes to 30 minutes, 60 minutes, 90 minutes and 0 minutes (off timer cancelled) each time the button is pressed.



When three minutes remain, "OFF TIMER 3 MIN" will flash. The off timer is cancelled if a power interruption occurs.

### AUTO SETUP button

Automatically adjusts the position/size of the screen. (see page 26)

### SET UP button

(see page 25)

### SOUND button

(see page 34)

### Volume Adjustment

Press the Volume Up "+" or Down "-" button to increase or decrease the sound volume level.

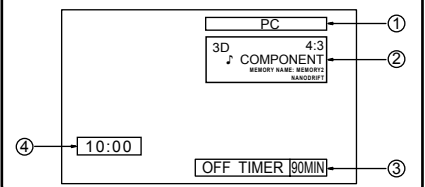
### R button

(see page 25)  
Press the R button to return to previous menu screen.

### RECALL button

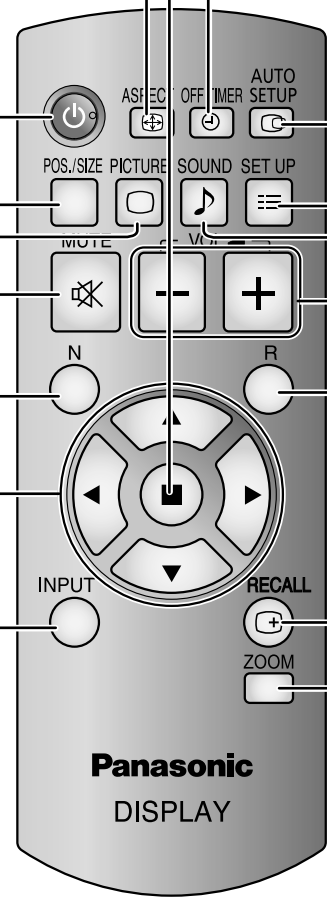
Press the "RECALL" button to display the current system status.

- ① Input label
- ② Aspect mode (see page 21)  
During 3D images (see page 36)  
Audio input (see page 59)  
Profile name (see page 33)  
NANODRIFT SAVER operating (see page 40)
- ③ Off timer  
The off timer indicator is displayed only when the off timer has been set.
- ④ Clock display (see page 56)



### Digital Zoom

(see page 22)



# ASPECT Controls

The Plasma Display will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.

**Note:**

Be aware that if you put the display in a public place for commercial purposes or a public showing and then use the aspect mode select function to shrink or expand the picture, you may be violating the copyright under copyright law. It is prohibited to show or alter the copyrighted materials of other people for commercial purposes without the prior permission of the copyright holder.

ASPECT



Press repeatedly to move through the aspect options:

For details about the aspect mode, please see "List of Aspect Modes" (page 67).

For VIDEO (S VIDEO) signal input:

→ 4:3 → ZOOM → FULL → JUST

[from the unit]



The aspect mode changes each time the ENTER button is pressed.

For PC signal input:

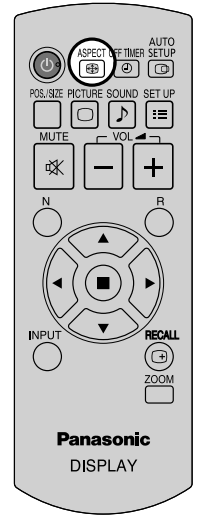
→ 4:3 → ZOOM → FULL

For SD signal input (525 (480) / 60i • 60p, 625 (575) / 50i • 50p):

→ 4:3 → ZOOM → FULL → JUST

For HD signal input [1125 (1080) / 60i • 50i • 60p • 50p • 24p • 25p • 30p • 24sF, 1250 (1080) / 50i, 750 (720) / 60p • 50p]:

→ 4:3 → H-FILL → ZOOM → FULL → JUST



**Notes:**

- The aspect mode is memorized separately for each input terminal.
- Do not allow the picture to be displayed in 4:3 mode for an extended period, as this can cause a permanent image retention to remain on the Plasma Display Panel.

**All Aspect mode**

Set "All Aspect" to "On" in Options menu to enable the extended aspect mode (page 56). When All Aspect mode, the aspect mode of pictures is switched as follows. For details about the aspect mode, please see "List of Aspect Modes" (page 67).

For VIDEO (S VIDEO) signal input:

→ 4:3 → Zoom1 → Zoom2 → Zoom3 → 16:9 → 14:9 → Just

For PC signal input:

→ 4:3 → Zoom → 16:9

For SD signal input (525 (480) / 60i • 60p, 625 (575) / 50i • 50p):

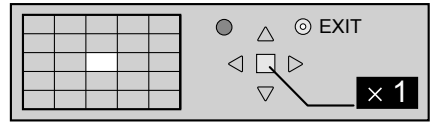
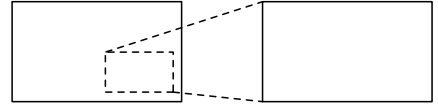
→ 4:3 → Zoom1 → Zoom2 → Zoom3 → 16:9 → 14:9 → Just

For HD signal input [1125 (1080) / 60i • 50i • 60p • 50p • 24p • 25p • 30p • 24sF, 1250 (1080) / 50i, 750 (720) / 60p • 50p]:


→ 4:3 Full → Zoom1 → Zoom2 → Zoom3 → 16:9 → 14:9 → Just1 → Just2 → 4:3 (1) → 4:3 (2)

# Digital Zoom

This displays an enlargement of the designated part of the displayed image.

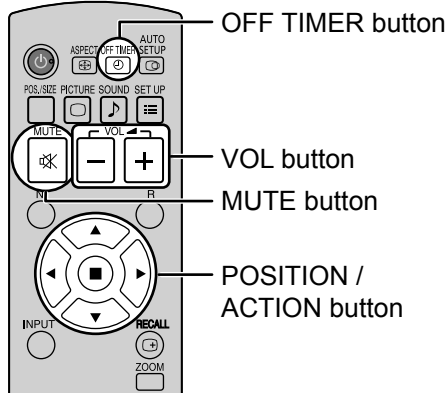


## 1 Display the operation guide.

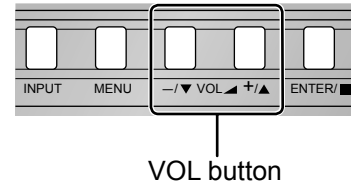
**ZOOM**  
 Press to access Digital Zoom.  
 The operation guide will be displayed.

**During Digital Zoom, only the following buttons can be operated.**

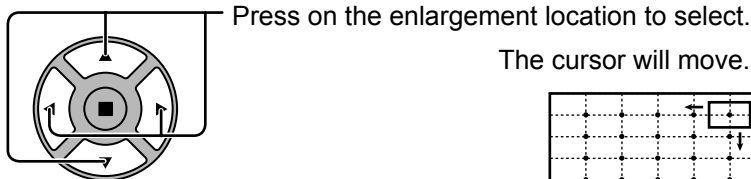
[Remote control]



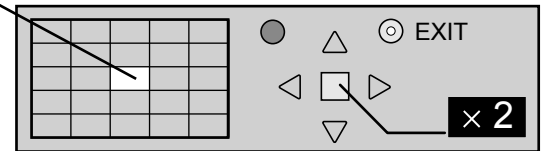
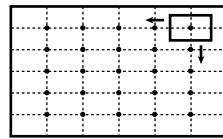
[Unit]



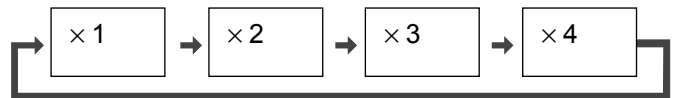
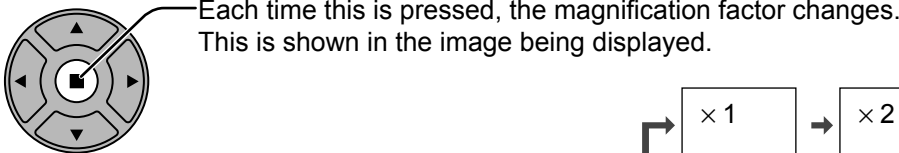
## 2 Select the area of the image to be enlarged.




The cursor will move.



## 3 Select the magnification required for the enlarged display.



## 4 Return to normal display (quit Digital Zoom).

**R**  
 Press to exit from the Digital Zoom.

### Notes:

- When power goes OFF (including "Off Timer" operation), Digital Zoom terminates.
- The Digital Zoom function cannot be selected while in the following operation state:  
 When MULTI DISPLAY SETUP is ON (see page 45).  
 When PORTRAIT SETUP is ON (see page 47).  
 When SCREENSAVER (except for NEGATIVE IMAGE) is running. (see page 37)
- While Digital Zoom is in operation, "Adjusting POS./SIZE" cannot be used.

# Viewing 3D images

You can enjoy viewing 3D images with contents or programmes compatible with 3D effect by using the 3D eyewear (optional).

**Note:**

You need the 3D IR TRANSMITTER (optional) and the 3D eyewear (optional) to view the 3D images on this display. For further information, see the instruction manuals of the 3D IR TRANSMITTER and the 3D eyewear.

This display supports “Frame Sequential”<sup>\*1</sup>, “SIDE BY SIDE”<sup>\*2</sup>, “TOP AND BOTTOM”<sup>\*3</sup> and “SIMULTANEOUS”<sup>\*4</sup> 3D formats.

\*1: The 3D format that the images for the left and right eyes are recorded with the high definition quality and alternately played back

\*2, \*3: See “Table of images that can be seen for each 3D Picture Format and the source image format” on page 24.

\*4: To view “SIMULTANEOUS” 3D images, one of the following terminal boards should be installed:

Dual HD-SDI Terminal Board for 3D (TY-FB30DHD3D), Dual DVI-D Terminal Board for 3D (TY-FB30DD3D)

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## To view the 3D images

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**To view the contents of the Frame Sequential format (ex. 3D-compatible Blu-ray Disc, etc.) with 3D effect**

Connect the 3D-compatible player via an HDMI cable (see page 10) and playback the contents.

- Use fully wired HDMI compliant cable.
- For the settings of the player, read the manual of the player.
- If you use the non 3D-compatible player, the images will be displayed without 3D effect.

**To view the contents of 3D formats other than Frame Sequential with 3D effect.**

Match the picture format in “3D INPUT FORMAT” (see page 36) before viewing.

- You can view “SIDE BY SIDE” and “TOP AND BOTTOM” with 3D effect even if you use the non 3D-compatible player.
- Please consult the suppliers of contents or programmes for availability of this service.

① **Turn the 3D Eyewear on**

- See the instruction manual of 3D eyewear for handling.

② **Put on the 3D Eyewear**

③ **Watch the 3D images**

**Notes:**













- If the room is lit by fluorescent lights and light appears to flicker when using the 3D Eyewear, switch off the fluorescent light. Alternatively, please set “3D REFRESH RATE” to “100Hz” or “120Hz” whichever reduces flicker. (see page 51)
- 3D content will not be correctly visible if the 3D Eyewear is worn upside down or back-to-front.
- Do not wear the 3D Eyewear when watching anything other than 3D images. Liquid crystal displays (such as computer screens, digital clocks or calculators, etc.) may be difficult to see while wearing the 3D Eyewear.
- Do not use the 3D Eyewear as sunglasses.
- 3D effects may be perceived differently depending on the person.

## Troubleshooting for 3D Eyewear

Symptoms	Checks
Cannot see 3D images	<ul style="list-style-type: none"> <li>• Has the 3D Eyewear been switched On?</li> <li>• Ensure that “3D EYEWEAR” in “3D SETTINGS” is set to “ON”. (see page 36)</li> <li>• Some 3D image signals may not be automatically recognized as 3D images. Set “3D INPUT FORMAT” in “3D SETTINGS” to match the picture format. (see page 36)</li> <li>• Check that there are no obstacles between the 3D IR TRANSMITTER and the 3D Eyewear. If the 3D Eyewear stops receiving the infrared signal for about 5 minutes, the 3D Eyewear will be turned off automatically.</li> <li>• Check the available area to use the 3D Eyewear.</li> <li>• Depending on the person, the 3D images may be difficult to see, or cannot be seen, especially in users that have a different level of eyesight between the left and right eyes. Take the necessary steps (wearing glasses etc.) to correct your eyesight before use.</li> </ul>
3D Eyewear is turned off automatically	<ul style="list-style-type: none"> <li>• Check that there are no obstacles between the 3D IR TRANSMITTER and the 3D Eyewear or that the 3D Eyewear is placed inside the coverage area. If the 3D Eyewear stops receiving the infrared signal for about 5 minutes, the 3D Eyewear will be turned off automatically.</li> </ul>
There is something wrong with the 3D images	<ul style="list-style-type: none"> <li>• Switch “SWAPPED” and “NORMAL” under “LEFT/RIGHT SWAP” in “3D SETTINGS” (see page 36).</li> </ul>
Indicator lamp will not light when the 3D glasses are turned ON.	<ul style="list-style-type: none"> <li>• The battery may be running low or flat. Change the battery or charge the 3D glasses.</li> </ul>

## Table of images that can be seen for each 3D Picture Format and the source image format

If the picture appears to be abnormal, refer to the table below to choose the correct 3D picture format setting.

3D INPUT FORMAT Source image format	AUTO	SIDE BY SIDE	TOP AND BOTTOM	NATIVE
Side by side	 *1	 Normal*2		
Top and bottom	 *1		 Normal*2	
Normal format (2D)	 Normal			 Normal

\*1 When the source image is not recognized correctly

\*2 When “3D EYEWEAR” is set to “ON”, the images will be displayed with 3D effect. When set to “OFF”, displayed without 3D effect.

• Depending on the player or contents, the image may be different from the above illustrations.

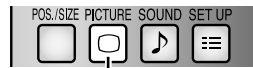


# On-Screen Menu Displays

## Remote Control

## Unit

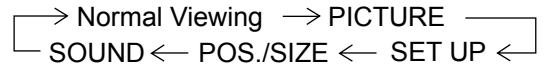
### 1 Display the menu screen.



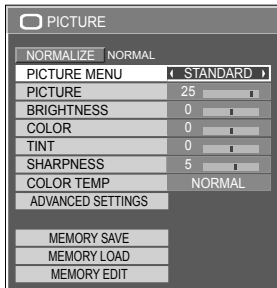
Press to select.  
(Example: PICTURE menu)

Press several times.

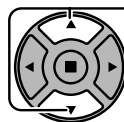
MENU  
Each time the MENU button is pressed, the menu screen will switch.



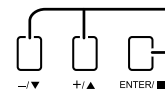
### 2 Select the item.



(Example: PICTURE menu)



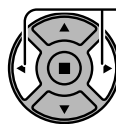
Select.



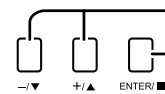
1 Select.

2 Press.

### 3 Set.



Set.



1 Set.

2 Press.

### 4 Exit the menu.



Press.  
Press to return to the previous menu.

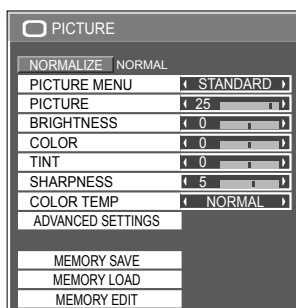


Press several times.

## Menu display list

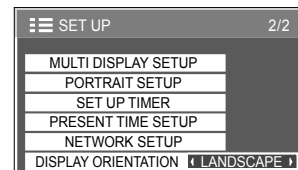
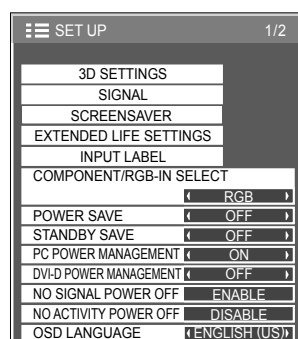
**Note:** Menu that cannot be adjusted is grayout. Adjustable menu changes depending on signal, input and menu setting.

### PICTURE menu



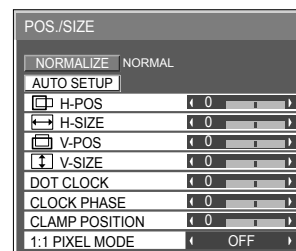
see page 29-33

### SET UP menu



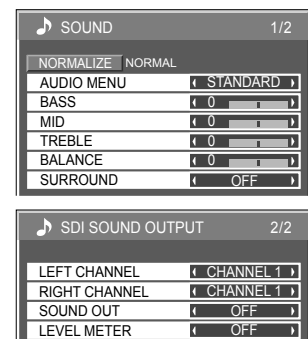
see page 35-53

### POS./SIZE menu




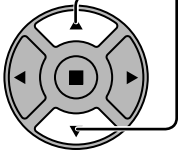
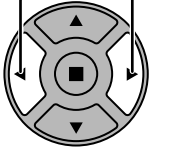

see page 26-28

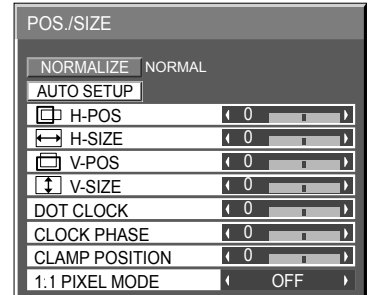
### SOUND menu



see page 34

# Adjusting POS./SIZE

- 1  Press to display the POS./SIZE menu.
- 2  Press to select the menu to adjust.
- 3  Press to adjust the menu.
- 4  Press to exit from adjust mode.



## Note:

Unadjustable items are grayed out.  
Adjustable items differ depending on the input signal and the display mode.

## Notes:

- Adjustment details are memorized separately for different input signal formats. (Adjustments for component signals are memorized for 525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 1125 (1080) / 60i · 50i · 60p · 50p · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i, 750 (720) / 60p · 50p each, and RGB/PC/Digital signals are memorized for each frequency.)
- If a “Cue” or “Rew” signal from a VCR or DVD player is received, the picture position will shift up or down. This picture position movement cannot be controlled by the POS./SIZE function.

## AUTO SETUP

When inputting a PC signal as an example, “H-POS/V-POS”, “H-SIZE/V-SIZE”, “DOT CLOCK” and “CLOCK PHASE” are automatically corrected.

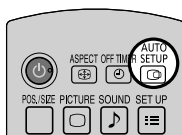
This setting is enabled under the following conditions:

- This setting is not activated during Multiple display, Portrait display or Digital Zoom.
- When inputting an analog signal (Component/PC):  
This setting is enabled if “COMPONENT/RGB-IN SELECT” (see page 49) in SET UP menu is “RGB”.
- When inputting a digital signal (HDMI/DVI):  
A PC format signal enables this setting.  
When the signal is not PC format, this setting is enabled only if “OVER SCAN” (see page 27) is “OFF” or “1:1 PIXEL MODE” (see page 28) is “ON.” H-SIZE/V-SIZE is not automatically adjusted.

This setting will be invalid and will not work under the following conditions:

- When VIDEO signal input
- Aspect is set to “JUST”
- “Display size” in the Options menu (see page 55) is set to “On”

## Using Remote Control



When  on the remote control is pressed, “AUTO SETUP” will be executed.

When AUTO SETUP does not work, “INVALID” is displayed.

## Auto mode

When the “Auto Setup” is set to “Auto” in the Options menu (see page 56), automatic position adjustment starts:

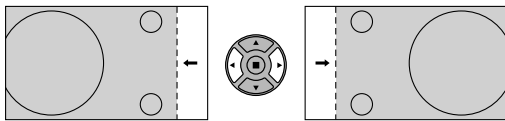
- When the display power is turned ON.
- When the input signal is switched.

**Notes:**

- If the dot clock frequency of an analog signal is 162 MHz or higher, “DOT CLOCK” and “CLOCK PHASE” cannot be automatically corrected.
- When digital signal input, DOT CLOCK and CLOCK PHASE cannot be made.
- AUTO SETUP may not work when a cropped or dark image is input. In such case, switch to a bright image with borders and other objects are clearly shown, and then try auto setup again.
- Depending on the signal, out of alignment may occur after AUTO SETUP. Carry out fine tuning for the position/size as required.
- If AUTO SETUP cannot set properly for vertical frequency 60Hz XGA signal (1024×768@60Hz, 1280×768@60Hz, and 1366×768@60Hz), pre-selecting the individual signal in “XGA MODE” (see page 50) may results in correct AUTO SETUP.
- AUTO SETUP does not work well when a signal such as additional information is superimposed out of valid image period or intervals between synchronizing and image signals are short, or for image signal with tri-level synchronizing signal added.
- If AUTO SETUP cannot adjust correctly, select “NORMALIZE” once and press ACTION (■) then adjust POS./SIZE manually.

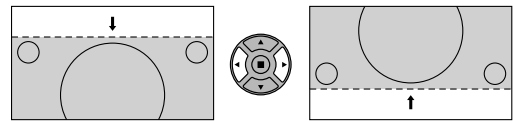
**H-POS**

Adjust the horizontal position.



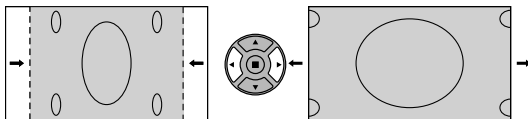
**V-POS**

Adjust the vertical position.



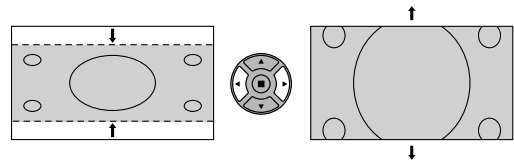
**H-SIZE**

Adjust the horizontal size.



**V-SIZE**

Adjust the vertical size.



**DOT  
CLOCK**

**(During Component/PC input signal)**

Periodic striped pattern interference (noise) may occur when a striped pattern is displayed. If this happens, adjust so that any such noise is minimized.

**CLOCK  
PHASE**

**(During Component/PC input signal)**

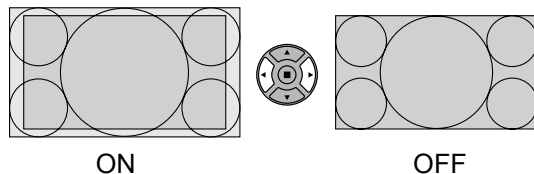
Eliminate the flickering and distortion.

**OVER  
SCAN**

Turn image over scan ON/OFF.

Configurable signals are as follows:

525i, 525p, 625i, 625p, 750/60p, 750/50p (Component Video, RGB, DVI, SDI, HDMI)



**Notes:**

- When “OFF” is set, “H-SIZE” and “V-SIZE” cannot be adjusted.
- When the “Display size” is set to “On” in the Options menu, this setting will be invalid. (see page 55)

# Adjusting POS./SIZE

## CLAMP POSITION (During Component/PC input signal)

Adjusts the clamp position when black parts of the image have no detail due to underexposure or are tinged with green.

### Optimum value for Clamp Position adjustment

When black parts have no detail due to underexposure (blackout)

→Value that causes least blackout is the optimum.

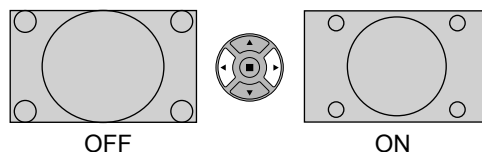
When black parts are tinged with green

→Value that cancels the greenishness without causing blackout is the optimum.

**1:1 PIXEL MODE** Adjusts the display size when 1125i, 1125p or 1250i signal is input.

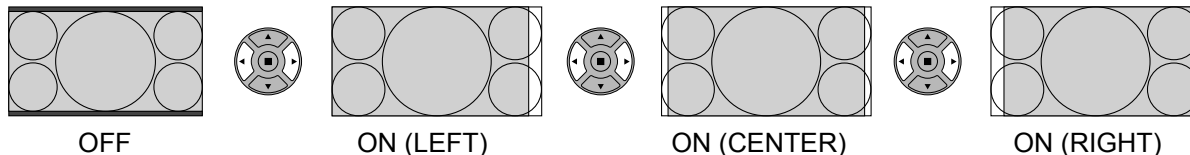
### Notes:

- Select ON when you would like to replay 1920 × 1080 input signal.
- Applicable input signal;  
1125 (1080) / 50i · 60i · 24sF · 24p · 25p · 30p · 50p · 60p, 1250 (1080) / 50i
- Select OFF when flickering is shown around the image.
- H-SIZE and V-SIZE cannot be adjusted when ON is selected.



**1:1 PIXEL MODE (2k1k)** When the input signal is a 2k1k signal (2048×1080 / 24p, 2048×1080 / 24sF), the display size is adjusted as follows.

(For 2k1k signals)




### Note:

2k1k signals can only be received when the Dual Link HD-SDI Terminal Board (TY-FB11DHD) or the Dual HD-SDI Terminal Board for 3D (TY-FB30DHD3D) is installed.

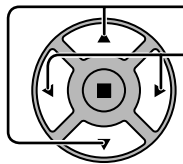
## Helpful Hint ( / **NORMALIZE** Normalization)

While the POS./SIZE display is active, if either the N button on the remote control is pressed at any time or the ACTION (■) button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

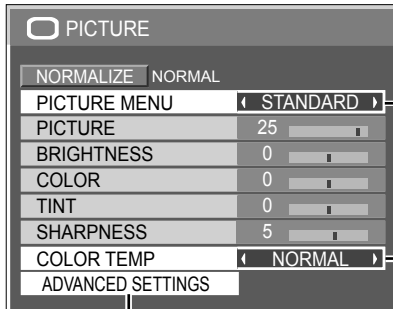
# PICTURE Adjustments

**1**  Press to display the PICTURE menu.

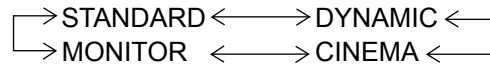
**2** Select to adjust each item.

 Press to select the menu to adjust.  
Select the desired level by looking at the picture behind the menu.

**Note:**  
Menu that cannot be adjusted is grayout. Adjustable menu changes depending on signal, input and menu setting.



Press the left ◀ or right ▶ button to switch between modes.



## STANDARD

For viewing in standard (evening lighting) environments. This menu selects the normal levels of BRIGHTNESS and PICTURE.

## DYNAMIC

For viewing in brighter environments. This menu selects higher than normal levels of BRIGHTNESS and PICTURE.

## CINEMA

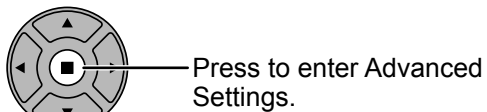
Ideal for movies.

## MONITOR

For use when creating broadcast or movie content. With this picture, even if the overall average picture level (APL) changes, the brightness of areas with the same signal level does not change.

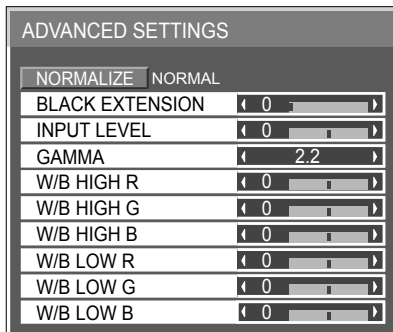
### Notes:

- When "MONITOR" is selected in PICTURE MENU, the following menu items cannot be set.  
 PICTURE menu: PICTURE  
 EXTENDED LIFE SETTINGS: PEAK LIMIT (see page 40)  
 SET UP menu: POWER SAVE (see page 42)  
 MULTI DISPLAY SETUP menu: AI-SYNCHRONIZATION (see page 46)  
 PORTRAIT SETUP menu: AI-SYNCHRONIZATION (see page 48)
- If you would like to change the picture and color of the selected PICTURE menu to something else, adjust using the items in the PICTURE menu. (see next page)

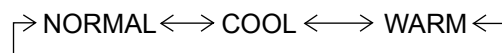


## ADVANCED SETTINGS

Enables fine picture adjustment at a professional level (see next page).



Press the left ◀ or right ▶ button to switch between modes.



## Helpful Hint ( / **NORMALIZE** Normalization)

While the "PICTURE" menu is displayed, if either the N button on the remote control is pressed at any time or the ACTION (■) button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

# PICTURE Adjustments

Item	Effect	Adjustments
<b>PICTURE</b>	Less       More	Adjusts the proper picture contrast.
<b>BRIGHTNESS</b>	Darker       Brighter	Adjusts for easier viewing of dark pictures such as night scenes and black hair.
<b>COLOR</b>	Less       More	Adjusts color saturation.
<b>TINT</b>	Reddish       Greenish	Adjusts for natural flesh tones.
<b>SHARPNESS</b>	Less       More	Adjusts picture sharpness.

**Notes:**

- You can change the level of each function (PICTURE, BRIGHTNESS, COLOR, TINT, SHARPNESS) for each PICTURE MENU.
- The setting details for STANDARD, DYNAMIC, CINEMA and MONITOR respectively are memorized separately for each input terminal.
- In PICTURE, there is not a noticeable change even when contrast is increased with a bright picture or reduced with a dark picture.

# ADVANCED SETTINGS

Item	Effect	Details
<b>BLACK EXTENSION</b>	Less       More	Adjusts the dark shades of the image in gradation.
<b>INPUT LEVEL</b>	Less       More	Adjustment of parts which are extremely bright and hard to see.
<b>GAMMA</b>	Down       Up	S CURVE $\longleftrightarrow$ 2.0 $\longleftrightarrow$ 2.2 $\longleftrightarrow$ 2.6
<b>W/B HIGH R</b>	Less       More	Adjusts the white balance for light red areas.
<b>W/B HIGH G</b>	Less       More	Adjusts the white balance for light green areas.
<b>W/B HIGH B</b>	Less       More	Adjusts the white balance for light blue areas.
<b>W/B LOW R</b>	Less       More	Adjusts the white balance for dark red areas.
<b>W/B LOW G</b>	Less       More	Adjusts the white balance for dark green areas.
<b>W/B LOW B</b>	Less       More	Adjusts the white balance for dark blue areas.

**Notes:**

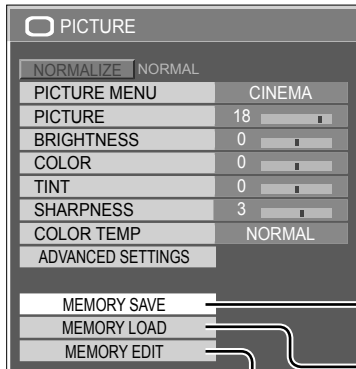
- Carry out “W/B” adjustment as follows.
  1. Adjust the white balance of the bright sections using the “W/B HIGH R”, “W/B HIGH G” and “W/B HIGH B” settings.
  2. Adjust the white balance of the dark sections using the “W/B LOW R”, “W/B LOW G” and “W/B LOW B” settings.
  3. Repeat steps 1 and 2 to adjust.
 Steps 1 and 2 affect each other’s settings, so repeat each step in turn to make the adjustment.
- The adjustment values are memorized separately for each input terminal.
- The adjustment range values should be used as an adjustment reference.

**Helpful Hint** ( / **NORMALIZE** **Normalization** )

On the remote control unit, while the “ADVANCED SETTINGS” menu is displayed, if either the N button is pressed at any time or the ACTION ( ) button is pressed during “NORMALIZE”, then all adjustment values are returned to the factory settings.

# Picture Profiles

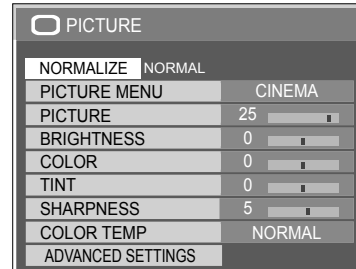
Up to 8 combinations of picture adjustment values (in the PICTURE menu and ADVANCED SETTINGS) can be stored in the display memory as profiles and applied as needed, for a convenient way to enjoy your preferred picture settings.



Save profiles (page 32)

Load profiles (page 33)

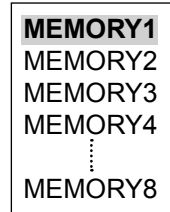
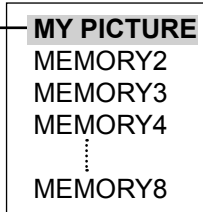
Edit profiles (page 33)



Save profiles

Save the picture adjustment values in the MEMORY1 profile

Edit the profile  
Delete or rename the profile



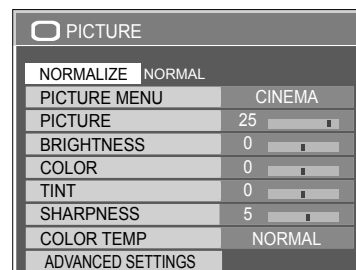
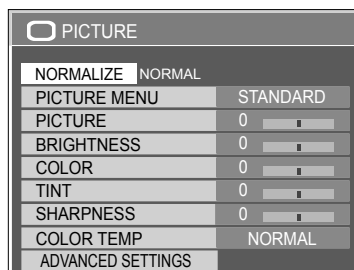
Load the profile

Apply the MEMORY1 profile

Original picture



Custom picture



## Saving profiles

Follow these steps to save picture adjustment values as profiles.

**Note:**

When the settings are locked in “EXTENDED LIFE SETTINGS”, profiles cannot be saved.

**1** Specify the picture quality in the PICTURE menu and ADVANCED SETTINGS. (see page 29, 30)

**2** In the PICTURE menu, select “MEMORY SAVE”.

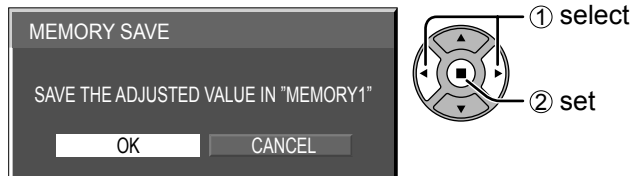


**3** Select a profile name for saving the picture adjustment values.



“\*” appears for a profile in which the picture adjustments have already been saved.

**4** Select “OK”.



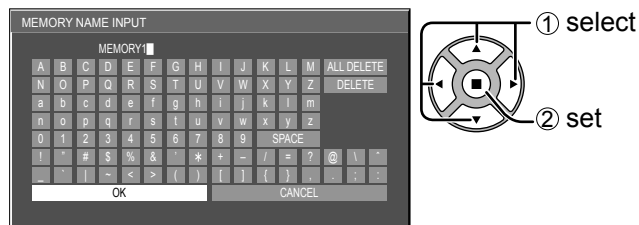
**5** Enter a name for the profile.

**[Entering profile names]**

Profile names can be up to 40 characters.

To enter text, select characters in the on-screen keyboard.

Edit the default profile name in the text box as desired.



**Example: Specifying “MY PICTURE”**

① Select “ALL DELETE”.



All text is deleted.

To delete individual characters, select “DELETE”.

② Select “M”.



Repeat this process to enter the next character.

③ Select “Y”.

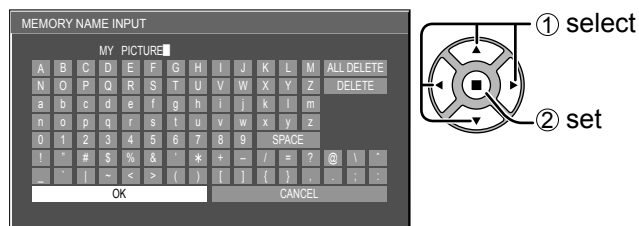


④ Select “SPACE”.



**6** When you finished entering the profile name, select “OK”.

To cancel saving the profile, select “CANCEL”.







# Loading profiles

Load profiles and apply the picture adjustment values to the display as follows.

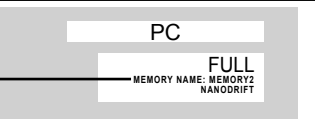
**Notes:**

- Loaded profiles are stored in memory according to the selected input interface. (see page 18)
- When the settings are locked in “EXTENDED LIFE SETTINGS”, profiles cannot be loaded.

**1** In the PICTURE menu, select “MEMORY LOAD”. **2** Select the profile to load.

When profile is being loaded, profile name is displayed.




# Editing profiles


Delete or rename profiles as follows.

**<Deleting profiles>**

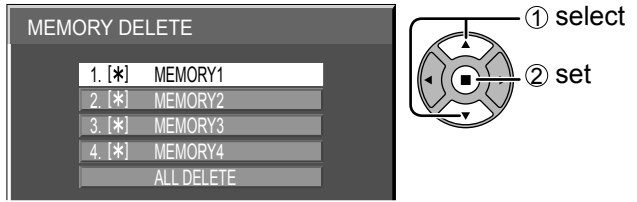
**1** In the PICTURE menu, select “MEMORY EDIT”.



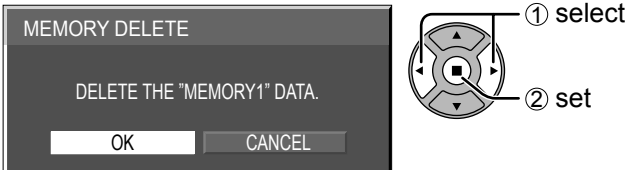
**2** Select “MEMORY DELETE”.



**3** Select the profile to delete. To delete all profiles, select “ALL DELETE”.




**4** Select “OK”.

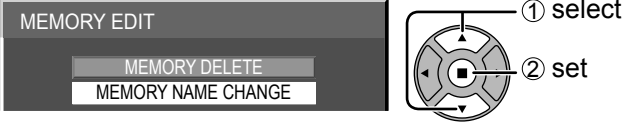


**<Renaming profiles>**


**1** In the PICTURE menu, select “MEMORY EDIT”.



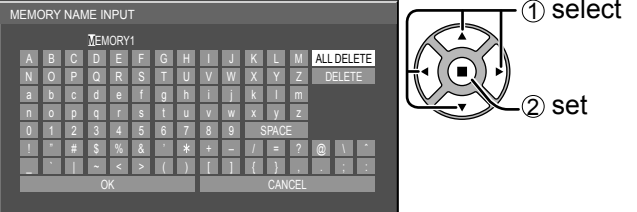
**2** Select “MEMORY NAME CHANGE”.



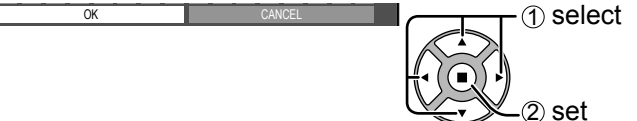
**3** Select the profile to rename.




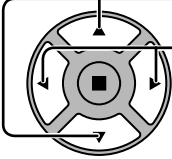

**4** Enter a name for the profile. Entering profile names → page 32

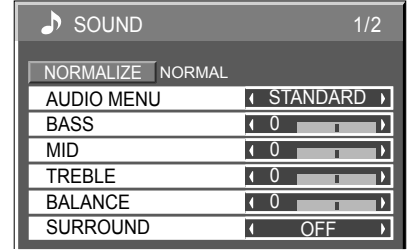


**5** When you finished entering the profile name, select “OK”. To cancel renaming the profile, select “CANCEL”.



# SOUND Adjustment


-  Press to display the SOUND menu.
- Select to adjust each item.
   

  - Press to select the menu to adjust.
  - Select the desired level by listening to the sound.
-  Press to exit from adjust mode.



Item	Details
<b>AUDIO MENU</b>	<b>STANDARD:</b> Emits the original sound. <b>DYNAMIC:</b> Accentuates sharp sound. <b>CLEAR:</b> Attenuates human voice.
<b>BASS</b>	Adjusts low pitch sounds.
<b>MID</b>	Adjusts normal sounds.
<b>TREBLE</b>	Adjusts pitch sound.
<b>BALANCE</b>	Adjusts left and right volumes.
<b>SURROUND</b>	Select ON or OFF.

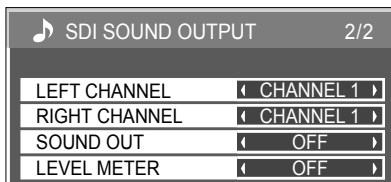
**Note:** BASS, MID, TREBLE and SURROUND settings are memorized separately for each AUDIO MENU.

## Helpful Hint ( / **NORMALIZE** Normalization)

While the "SOUND" menu is displayed, if either the N button on the remote control is pressed at any time or the ACTION () button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

# SDI SOUND OUTPUT

This menu is available only when selecting a slot that any of the following terminal boards is installed: HD-SDI Terminal Board with audio (TY-FB10HD), Dual Link HD-SDI Terminal Board (TY-FB11DHD), or Dual HD-SDI Terminal Board for 3D (TY-FB30DHD3D)


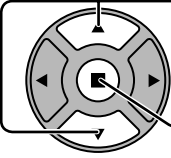
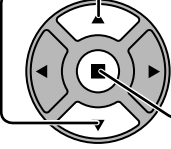


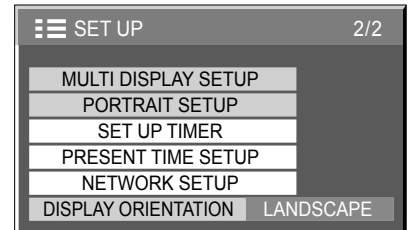
Item	Details
<b>LEFT CHANNEL</b>	<b>CHANNEL 1 to CHANNEL 16</b> Selects left audio channel.
<b>RIGHT CHANNEL</b>	<b>CHANNEL 1 to CHANNEL 16</b> Selects right audio channel.
<b>SOUND OUT</b>	<b>ON ↔ OFF</b> <b>ON:</b> Enables audio output. <b>OFF:</b> Disables audio output.
<b>LEVEL METER</b>	<b>OFF ↔ 1-8CH ↔ 9-16CH</b> Sets audio channels to show in the audio level meter. 8 channels are displayed in the audio level meter; 4 channels each on both right and left sides of the display. <b>OFF:</b> Hides the audio level meter. <b>1-8CH:</b> Displays the audio level meter (1-8ch) <b>9-16CH:</b> Displays the audio level meter (9-16ch)

# PRESENT TIME SETUP / SET UP TIMER

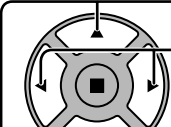
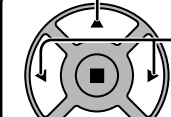
The timer can switch the Plasma Display ON or OFF.

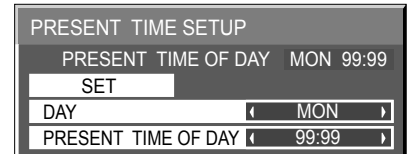
Before attempting Timer Set, confirm the PRESENT TIME OF DAY and adjust if necessary. Then set POWER ON TIME / POWER OFF TIME.

- 1  Press to display the SET UP menu.
- 2  Press to select SET UP TIMER or PRESENT TIME SETUP.  
 Press to display the SET UP TIMER screen or PRESENT TIME SETUP screen.

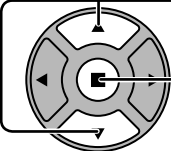
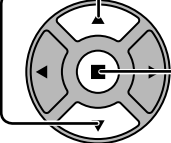


## PRESENT TIME SETUP

- 1  Press to select DAY or PRESENT TIME OF DAY.  
 Press to set up DAY or PRESENT TIME OF DAY.  
 ▶ button: Forward  
 ◀ button: Back

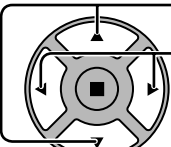
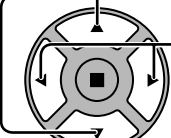


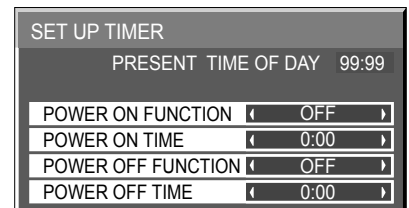
- Notes:**
- Pressing “◀” or “▶” button once changes PRESENT TIME OF DAY 1 minute.
  - Pressing “◀” or “▶” button continuously changes PRESENT TIME OF DAY by 15 minutes.

- 2  Press to select SET.  
 Press to store PRESENT TIME SETUP.

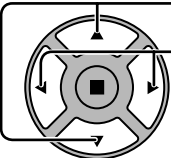
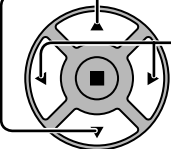
- Notes:**
- SET cannot be selected unless PRESENT TIME OF DAY is set.
  - Unless setting the present time other than “99:99”, “DAY” and “PRESENT TIME OF DAY” cannot be set.
  - The settings of “DAY” and “PRESENT TIME OF DAY” are reset when leaving the display turned off for about 7 days for the following reasons:  
 Pressing ⏻/| switch of the unit to turn off the display.  
 Disconnecting the AC cord.  
 Interruption of power supply.

## SET UP TIMER

- 1  Press to select POWER ON TIME / POWER OFF TIME.  
 Press to set up POWER ON TIME / POWER OFF TIME.  
 ▶ button: Forward  
 ◀ button: Back



- Notes:**
- Pressing “◀” or “▶” button once changes POWER ON TIME / POWER OFF TIME 1 minute.
  - Pressing “◀” or “▶” button continuously changes POWER ON TIME / POWER OFF TIME by 15 minutes.

- 2  Press to select POWER ON FUNCTION / POWER OFF FUNCTION.  
 Press to select ON.

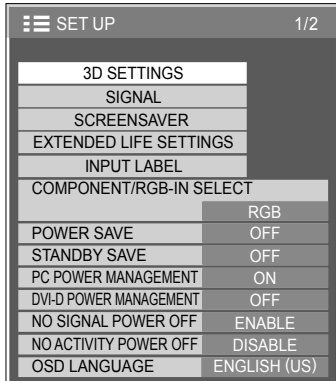
- Note:**  
 Timer function will not work unless “PRESENT TIME OF DAY” is set.

# 3D SETTINGS

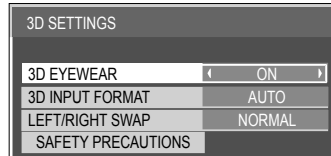
To view the 3D images, please adjust and setup the 3D settings.

**Note:**

Set these settings for each input terminals.



**3D SETTINGS sub-menu screen**



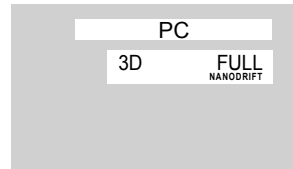
• **3D EYEWEAR**

**ON** ↔ **OFF**

**ON:** Use of 3D Eyewear. You can see 3D images for 3D image signal and 2D images for 2D image signal.

**OFF:** No use of 3D Eyewear. You can see 2D images instead of 3D images.

When set to "ON", "3D" is displayed during 3D images.



• **3D INPUT FORMAT**

3D images method is set.

**AUTO:** 3D images are automatically displayed according to the signal.

**SIMULTANEOUS:** Set this format when selecting a slot that one of the following terminal boards is installed:  
Dual HD-SDI Terminal Board for 3D (TY-FB30DHD3D), Dual DVI-D Terminal Board for 3D (TY-FB30DD3D)

**SIDE BY SIDE/TOP AND BOTTOM:** One of the formats of the 3D standard. Select these formats as necessary.

**NATIVE:** Displays the input signal as it is. Use to identify the format type of the input signal.

• **LEFT/RIGHT SWAP**

**NORMAL** ↔ **SWAPPED**

This function calibrates the timing to switch the right and left images as well as the timing to switch the shutter of right and left 3D Eyewear.


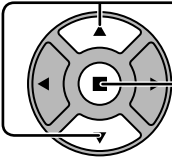
Selects "SWAPPED" if you feel that the sense of depth is unusual.

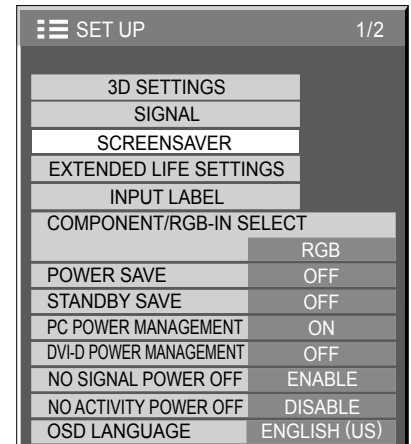
• **SAFETY PRECAUTIONS**

Displays the precautions for viewing 3D images.

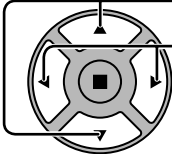
# SCREENSAVER (For preventing image retention)

Do not display a still picture, especially in 4:3 mode, for any length of time.  
If the display must remain on, a SCREENSAVER should be used.

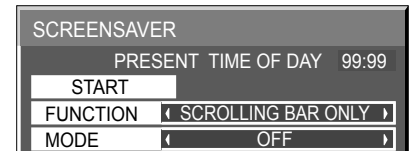
- 1  Press to display the SET UP menu.
- 2  Press to select the SCREENSAVER.  
Press to select the SCREENSAVER screen.



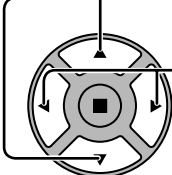
## 3 FUNCTION selection

- 3  Press to select the FUNCTION.  
Press to select the desired function.
- NEGATIVE IMAGE ↔ SCROLLING BAR ONLY ←  
 → WHITE SCREEN ↔ OVERLAY SCROLLING BAR ←

- NEGATIVE IMAGE : A negative image will be displayed on the screen.
- SCROLLING BAR ONLY : A white bar will scroll from left to right. The image won't be displayed.
- OVERLAY SCROLLING BAR : The brightness of the image will be decreased and a white bar will scroll on it.
- WHITE SCREEN : The whole screen will be white.

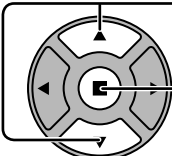


## 4 MODE selection

- 4  Press to select the MODE.  
Press to select each mode items.

- Off
- ↕
- INTERVAL : Operates when SHOW DURATION and SAVER DURATION are set up and those times arrive.
- ↕
- TIME OF DAY : Operates when START TIME and FINISH TIME are set up and those times arrive.
- ↕
- STANDBY AFTER SCR SAVER: Operates while SCREENSAVER DURATION, and display enters standby mode.
- ↕
- ON : Operates when START is selected and the ACTION (■) button is pressed.

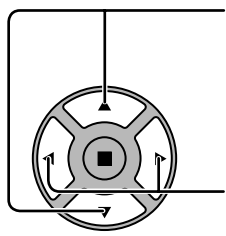
## 5 START setting

- 5  When the MODE is set to ON, press to select START.  
Press to start SCREENSAVER.

The menu screen will disappear and the SCREENSAVER will be activated. **To stop the SCREENSAVER under ON, press the R button or any buttons on the main unit.**  
**Note:** When the display is turned off, the SCREENSAVER will be deactivated.

## Setup of SCREENSAVER Time

After selecting TIME OF DAY, INTERVAL or STANDBY AFTER SCR SAVER, the relevant Time Setup will become available for selection and the Operating Time may be set. (Time cannot be set when "MODE" is "ON" or "OFF".)



Press to select START TIME / FINISH TIME (when TIME OF DAY is selected).

Press to select SHOW DURATION / SAVER DURATION (when INTERVAL is selected).

Press to select SCREENSAVER DURATION (when STANDBY AFTER SCR SAVER is selected).

Press to setup.

▶ button: Forward

◀ button: Back

### Notes:

- Pressing "◀" or "▶" button once changes the Time 1 minute.  
[However, switching occurs every 15 minutes when Periodic Time is selected.]
- Pressing "◀" or "▶" button continuously changes the Time by 15 minutes.
- "SCREENSAVER DURATION" of the "STANDBY AFTER SCR SAVER" can be set from 0:00 to 23:59. When this is set to "0:00", "STANDBY AFTER SCR SAVER" will not be activated.

**Note:** Timer function will not work unless "PRESENT TIME OF DAY" is set.

SCREENSAVER	
PRESENT TIME OF DAY	15:00
START	
FUNCTION	SCROLLING BAR ONLY
MODE	TIME OF DAY
START TIME	◀ 6:15 ▶
FINISH TIME	◀ 12:30 ▶

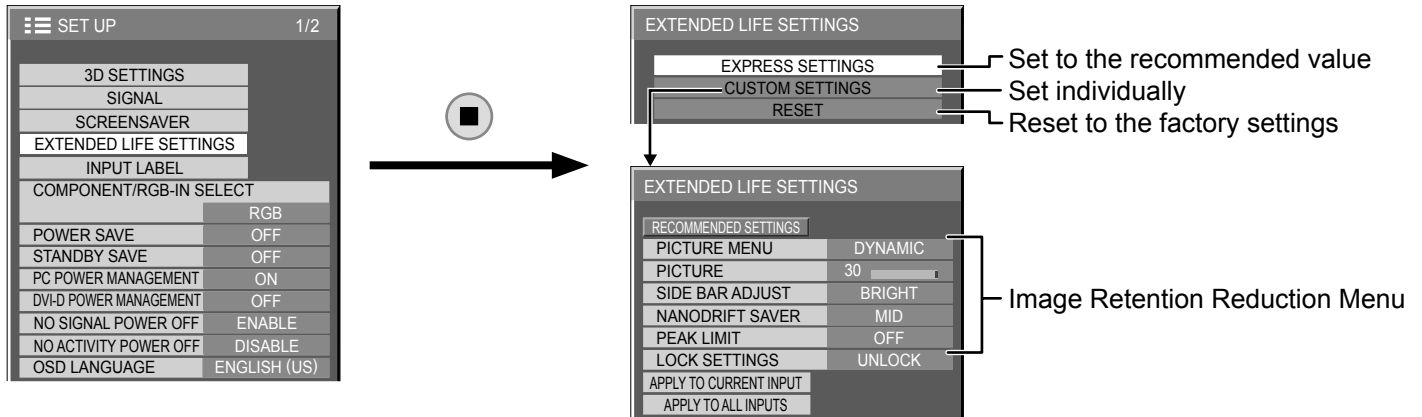
SCREENSAVER	
PRESENT TIME OF DAY	15:00
START	
FUNCTION	SCROLLING BAR ONLY
MODE	INTERVAL
SHOW DURATION	◀ 12:00 ▶
SAVER DURATION	◀ 3:00 ▶

SCREENSAVER	
PRESENT TIME OF DAY	15:00
START	
FUNCTION	SCROLLING BAR ONLY
MODE	STANDBY AFTER SCR SAVER
SCREENSAVER DURATION	◀ 6:15 ▶

# Reduces screen image retention

## EXTENDED LIFE SETTINGS

The following settings are setup to reduce image retention:



### Image Retention Reduction Menu

“EXTENDED LIFE SETTINGS” enables you to set the following 5 menus (Image Retention Reduction Menu) as recommended values or set them individually.

#### PICTURE MENU

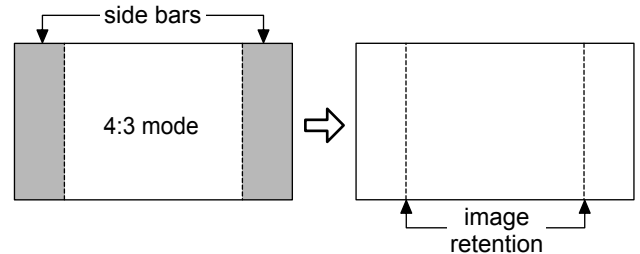
##### PICTURE

“PICTURE MENU” and “PICTURE” are same as “PICTURE” menu items (see page 29). The settings of this menu will be reflected to the “PICTURE” menu.

#### SIDE BAR ADJUST

Do not display a picture in 4:3 mode for an extended period, as this can cause an image retention to remain on the side bars on either side of the display field.

To reduce the risk of such an image retention, illuminate the side bars.



This function may be applicable to the non-picture area.

- OFF:** Darken both ends.
- DARK:** Make it dark gray.
- MID:** Make it gray.
- BRIGHT:** Make it light gray.

#### Notes:

- To reduce the occurrence of image retention, set the SIDE BAR ADJUST to BRIGHT.
- The side bar may flash (alternate black/white) depending on the picture being shown on the screen. Using Cinema mode will reduce such flashing.

# Reduces screen image retention

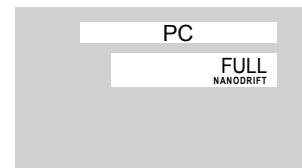
## NANODRIFT SAVER

Moves the display position of the screen slightly to reduce image retention on the display panel.

**LOW-HIGH:** NANODRIFT SAVER operates. The display position of the screen moves at set time intervals. You can set the screen movement range. Some of the screen may appear to be missing as a result of this operation. If you change the value, a mask is displayed in the range where the picture is missing as a result of position movement.



When "NANODRIFT" Image Retention Reduction is operating, "NANODRIFT" is displayed.



### Note:

This function does not work in the following cases.

When "MULTI DISPLAY SETUP" is set to "ON"

When "PORTRAIT SETUP" is set to "ON"

When in digital zoom mode

## PEAK LIMIT

**ON:** Suppresses image contrast (peak brightness).

**Note:** When a still picture is viewed for an extended time, the screen may become slightly darker. (see page 66)

## EXPRESS SETTINGS

Set the "Image Retention Reduction" menu to the recommended settings.

All menus will be locked.

PICTURE MENU: STANDARD

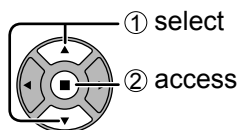
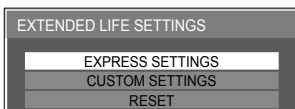
PICTURE: Recommended setting for each model

SIDE BAR ADJUST: BRIGHT

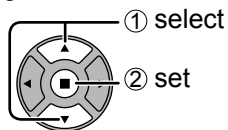
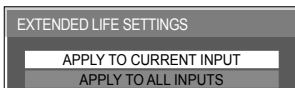
NANODRIFT SAVER: MID

PEAK LIMIT: ON

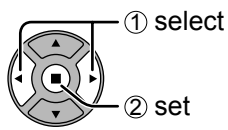
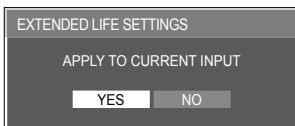
**1** Select "EXPRESS SETTINGS".



**2** Select the input to apply the settings.



**3** Select "YES".

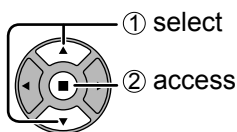
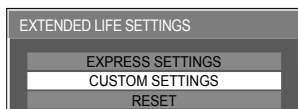




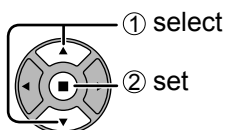
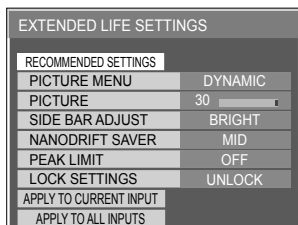
## CUSTOM SETTINGS

Set the individual "Image Retention Reduction" menu.

### 1 Select "CUSTOM SETTINGS".

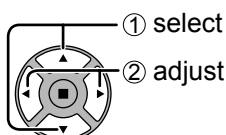
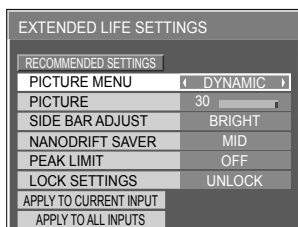


### 2 To set each menu to the recommended setting: Select "RECOMMENDED SETTINGS".

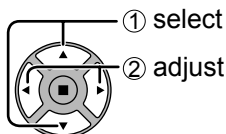
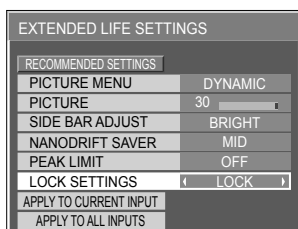


Each menu will be set as same as the "EXPRESS SETTINGS".

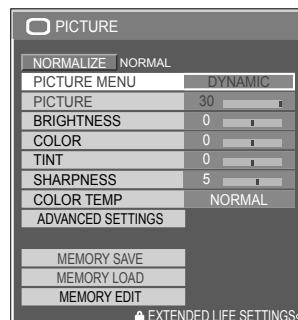
### 3 Set each menu.



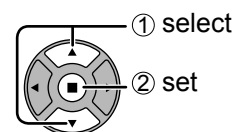
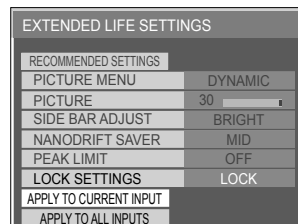
### 4 To lock each menu setting: Set the "LOCK SETTINGS" to "LOCK".



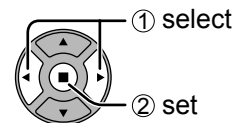
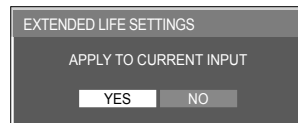
When a menu is locked, it is grayed out and cannot be set. "PICTURE MENU" and "PICTURE" will no longer be able to set in the "PICTURE" menu, and they are labeled with icon to indicate their locked status. Also, "NORMALIZE", "MEMORY SAVE" and "MEMORY LOAD" are not available.



### 5 Select the input to apply the settings.



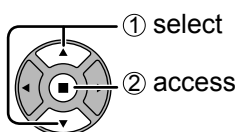
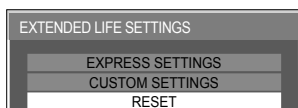
### 6 Select "YES".



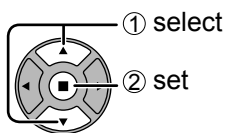
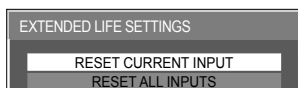
## RESET

Reset the "Image Retention Reduction" menu to the factory settings. Each menu will be unlocked.

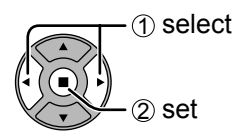
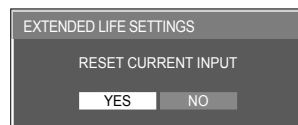
### 1 Select "RESET".



### 2 Select the input to reset the settings.



### 3 Select "YES".



# Reduces power consumption

- **POWER SAVE:** When this function is turned ON, luminous level of the Plasma Display is suppressed, so power consumption is reduced.
- **STANDBY SAVE:** When this function is turned ON, power consumption of the microcomputer is reduced during power supply standby (see page 16, 19, 20), so standby power of the set is reduced.
- **PC POWER MANAGEMENT:** When this function is set to ON, it operates under the following conditions to turn the power on or off automatically.  
When no pictures (HD/VD sync signals) are detected for 30 or so seconds during PC signal input:  
→ Power is turned off (standby); the power indicator lights up orange.  
When pictures (HD/VD sync signals) are subsequently detected:  
→ Power is turned on; the power indicator lights up green.
- **DVI-D POWER MANAGEMENT:** When this function is set to ON, it operates under the following conditions to turn the power on or off automatically.  
When no pictures (sync signal) are detected for 30 or so seconds during DVI signal input:  
→ Power is turned off (standby); the power indicator lights up orange.  
When pictures (sync signal) are subsequently detected:  
→ Power is turned on; the power indicator lights up green.
- **NO SIGNAL POWER OFF:** Equipment power supply is turned OFF when there is no signal.  
When this is set to "ENABLE", the power supply of the unit goes Off 10 minutes after the input signals stop.
- **NO ACTIVITY POWER OFF:** When this function is set to "ENABLE", the power is turned off (standby) automatically when there is no operation of the Plasma Display for 4 hours.  
Starting from 3 minutes before the turn off, the remaining time will be displayed.

**Notes:**

- This function operates only during PC signal input.
- This function is effective when "SYNC" is set to "AUTO", "COMPONENT / RGB-IN SELECT" is set to "RGB" and during normal viewing.

**Notes:**

- This function operates only during DVI signal input.
- This function is invalid during input from DVI-D Terminal Board (TY-FB11DD) and Dual DVI-D Terminal Board for 3D (TY-FB30DD3D).
- Depending on the type of terminal board equipped, this function may be invalid.

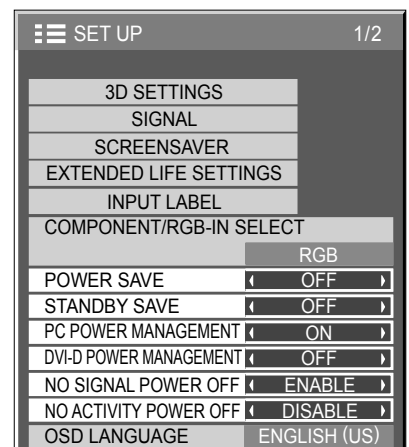


When the power is turned off due to this function, a message "LAST TURN OFF DUE TO 'NO ACTIVITY POWER OFF'." is displayed next time the power is turned on.

**Note:**


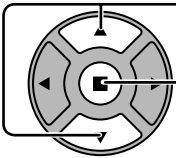

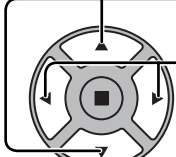

During the screensaver is running, this function is disabled.

- Press to select  
"POWER SAVE"  
"STANDBY SAVE"  
"PC POWER MANAGEMENT"  
"DVI-D POWER MANAGEMENT"  
"NO SIGNAL POWER OFF"  
"NO ACTIVITY POWER OFF".
- Press to select "ON (ENABLE)" or "OFF (DISABLE)".  
On (ENABLE) ← → Off (DISABLE)
- Press to exit from SET UP.



# Customizing the Input labels

This function can change the label of the Input signal to be displayed. (see page 18)

- 1  Press to display the SETUP menu.
- 2  Press to select INPUT LABEL.  
 Press to display the INPUT LABEL screen.
- 3  Press to select image input.  
 Press to change input label.

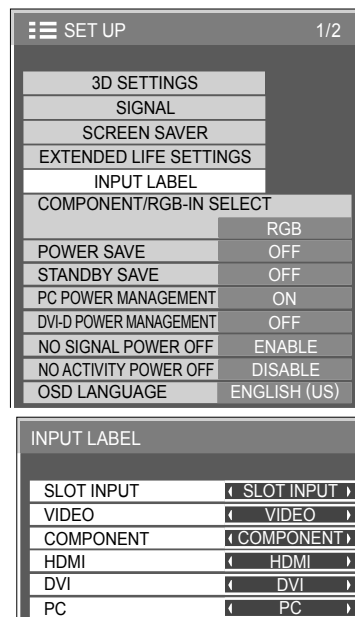


Image input	Input label
[SLOT INPUT]*1	SLOT INPUT / DVD1 / DVD2 / DVD3 / DVD4 / Blu-ray1 / Blu-ray2 / Blu-ray3 / Blu-ray4 / CATV / VCR / STB / (SKIP)
[VIDEO]	VIDEO / DVD1 / DVD2 / DVD3 / DVD4 / Blu-ray1 / Blu-ray2 / Blu-ray3 / Blu-ray4 / CATV / VCR / STB / (SKIP)
[COMPONENT]*2	COMPONENT / DVD1 / DVD2 / DVD3 / DVD4 / Blu-ray1 / Blu-ray2 / Blu-ray3 / Blu-ray4 / CATV / VCR / STB / (SKIP)
[HDMI]	HDMI / DVD1 / DVD2 / DVD3 / DVD4 / Blu-ray1 / Blu-ray2 / Blu-ray3 / Blu-ray4 / CATV / VCR / STB / (SKIP)
[DVI]	DVI / DVD1 / DVD2 / DVD3 / DVD4 / Blu-ray1 / Blu-ray2 / Blu-ray3 / Blu-ray4 / CATV / VCR / STB / (SKIP)
[PC]	PC / DVD1 / DVD2 / DVD3 / DVD4 / Blu-ray1 / Blu-ray2 / Blu-ray3 / Blu-ray4 / CATV / VCR / STB / (SKIP)

(SKIP) : The INPUT button press will skip its input.

\*1 "SLOT INPUT" is displayed when a Terminal Board is installed.

\*2 "COMPONENT" may be displayed as "RGB" depending on the setting of "COMPONENT/RGB-IN SELECT". (see page 49)

## When a Terminal Board with dual input terminals is installed

"SLOT INPUT" is displayed as "SLOT INPUT A" and "SLOT INPUT B" and independent settings are available.


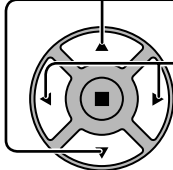
[SLOT INPUT A]	SLOT INPUT A / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / (SKIP)
[SLOT INPUT B]	SLOT INPUT B / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / (SKIP)

## When a Terminal Board with fixed display (such as Tuner Board) is installed

Only fixed display and (SKIP) are available as Input label of "SLOT INPUT".

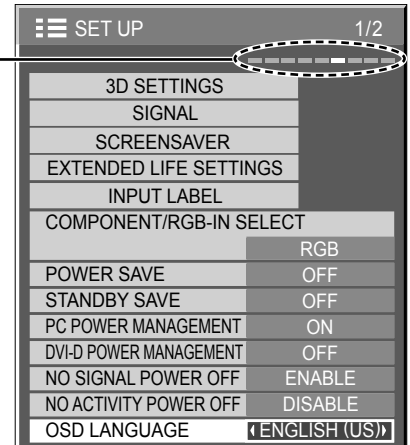
[SLOT INPUT]	<span style="border: 1px solid black; padding: 2px;">fixed display</span> / (SKIP)
--------------	--

# Selecting the On-Screen Menu Language

- 1  Press to display the SET UP menu.
- 2  Press to select OSD LANGUAGE.  
Press to select your preferred language.


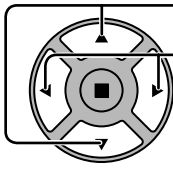

■ Selectable languages

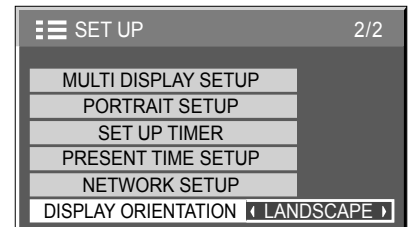
English(UK) —  
Deutsch —  
Français —  
Italiano —  
Español —  
ENGLISH(US) —  
中文.....(Chinese) —  
日本語.....(Japanese) —  
Русский .....(Russian) —



# DISPLAY ORIENTATION

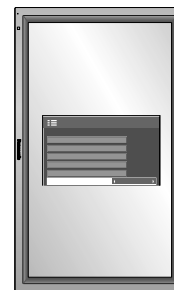
Sets the fan control, panel drive control, and the display style of on-screen menu for vertical installation.

- 1  Press to display the SET UP menu.
- 2  Press to select DISPLAY ORIENTATION.  
Press to select "LANDSCAPE" or "PORTRAIT".
- 3  Press to exit from adjust mode



**LANDSCAPE**

Fan control and panel drive control for horizontal installation.



**PORTRAIT**

Fan control and panel drive control for vertical installation. On-screen menu will be rotated 90 degrees counterclockwise to be suitable for the setting.

**Notes:**

- Turn up the power switch for the upward direction when you set Display vertically.
- When you change this setting, fan control and panel drive control will be switched as the power is turned on next time.

# SET UP for MULTI DISPLAY

By lining up Plasma Displays in groups, for example, as illustrated below, an enlarged picture may be displayed across all screens. For this mode of operation, each plasma display has to be set up with a Display number to determine its location.

**Note:**


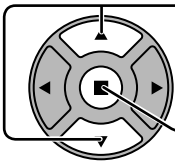
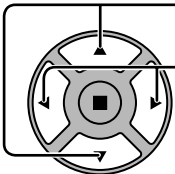
During Multi display, the 3D images are displayed as 2D images.

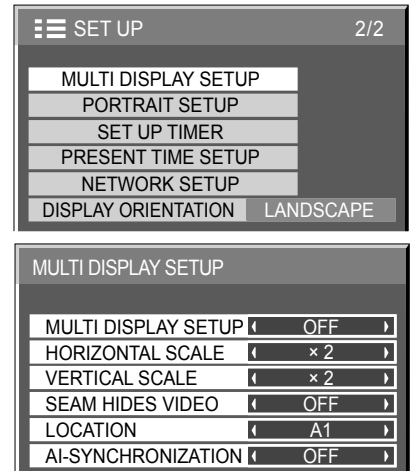
(Example)


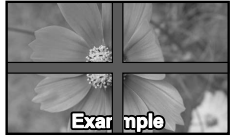
group of 4 (2 × 2)    group of 9 (3 × 3)    group of 16 (4 × 4)    group of 25 (5 × 5)




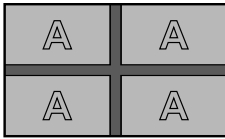
## How to setup MULTI DISPLAY

- 1  Press to display the SET UP menu.
- 2  Press to select the MULTI DISPLAY SETUP.  
Press to display the "MULTI DISPLAY SETUP" menu.
- 3  Press to select the MULTI DISPLAY SETUP.  
Press to select "ON" or "OFF".



Item	Details																																																									
<b>MULTI DISPLAY SETUP</b>	Select "ON" or "OFF". <b>Note:</b> If you set MULTI DISPLAY SETUP to ON, PORTRAIT SETUP will be unavailable.																																																									
<b>HORIZONTAL SCALE</b>	Select "× 1", "× 2", "× 3", "× 4", "× 5".																																																									
<b>VERTICAL SCALE</b>	Select "× 1", "× 2", "× 3", "× 4", "× 5".																																																									
<b>SEAM HIDES VIDEO</b>	Select "ON" or "OFF". <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>To hide joints between displays.</p>  <p>Example</p> <p>Suitable for moving image display.</p> <p><b>ON</b></p> </div> <div style="text-align: center;"> <p>To show joints between displays.</p>  <p>Example</p> <p>Suitable for still image display.</p> <p><b>OFF</b></p> </div> </div>																																																									
<b>LOCATION</b>	Select the required arrangement number. (A1-E5 : Refer to the following) <b>Display Number locations for each arrangement.</b> <b>(Examples)</b> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>( 2 × 1 )</p> <table border="1" style="margin: 0 auto;"> <tr><td>A1</td><td>A2</td></tr> </table> </div> <div style="text-align: center;"> <p>( 2 × 3 )</p> <table border="1" style="margin: 0 auto;"> <tr><td>A1</td><td>A2</td></tr> <tr><td>B1</td><td>B2</td></tr> <tr><td>C1</td><td>C2</td></tr> </table> </div> <div style="text-align: center;"> <p>( 4 × 2 )</p> <table border="1" style="margin: 0 auto;"> <tr><td>A1</td><td>A2</td><td>A3</td><td>A4</td></tr> <tr><td>B1</td><td>B2</td><td>B3</td><td>B4</td></tr> </table> </div> <div style="text-align: center;"> <p>( 4 × 4 )</p> <table border="1" style="margin: 0 auto;"> <tr><td>A1</td><td>A2</td><td>A3</td><td>A4</td></tr> <tr><td>B1</td><td>B2</td><td>B3</td><td>B4</td></tr> <tr><td>C1</td><td>C2</td><td>C3</td><td>C4</td></tr> <tr><td>D1</td><td>D2</td><td>D3</td><td>D4</td></tr> </table> </div> <div style="text-align: center;"> <p>( 5 × 5 )</p> <table border="1" style="margin: 0 auto;"> <tr><td>A1</td><td>A2</td><td>A3</td><td>A4</td><td>A5</td></tr> <tr><td>B1</td><td>B2</td><td>B3</td><td>B4</td><td>B5</td></tr> <tr><td>C1</td><td>C2</td><td>C3</td><td>C4</td><td>C5</td></tr> <tr><td>D1</td><td>D2</td><td>D3</td><td>D4</td><td>D5</td></tr> <tr><td>E1</td><td>E2</td><td>E3</td><td>E4</td><td>E5</td></tr> </table> </div> </div>	A1	A2	A1	A2	B1	B2	C1	C2	A1	A2	A3	A4	B1	B2	B3	B4	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5
A1	A2																																																									
A1	A2																																																									
B1	B2																																																									
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B1	B2	B3	B4																																																							
C1	C2	C3	C4																																																							
D1	D2	D3	D4																																																							
A1	A2	A3	A4	A5																																																						
B1	B2	B3	B4	B5																																																						
C1	C2	C3	C4	C5																																																						
D1	D2	D3	D4	D5																																																						
E1	E2	E3	E4	E5																																																						

# SET UP for MULTI DISPLAY

Item	Details
<p><b>AI-SYNCRONIZATION</b></p>	<p>Select "OFF" or "ON".</p> <p>The brightness depends on each display's setting.</p>  <p>OFF</p> <p>Equalize the brightness of all the displays.</p>  <p>ON</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• If you set AI-SYNCRONIZATION to ON, the following menu will be unavailable and these settings will be fixed to the initial values. PICTURE menu: COLOR, TINT, INPUT LEVEL (ADVANCED SETTINGS)</li> <li>• This function cannot be adjusted during input from VIDEO terminal.</li> </ul>










**4**  Press to exit from adjust mode.

## ID Remote Control Function

You can set the remote control ID when you want to use this remote control on one of several different displays.

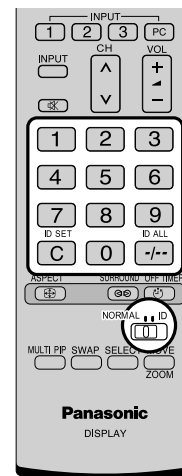
**Note:**

To operate this function, please purchase ID remote controller sold separately.  
Object model : EUR7636070R


- 1 Switch  to  on the right side.
- 2 Press the  button on the remote control.
- 3 Press one of  - ,  for the tens digit setting.
- 4 Press one of  - ,  for the units digit setting.

**Notes:**

- The numbers in 2, 3 and 4 should be set up quickly.
- Adjustable ID number range is 0 - 99.
- If a number button is pressed more than two times, the first two numbers become the ID number for the remote control.



### ID remote control button operation

The operation is the same as normal remote control except for the  button.

### ID Cancellation

Press  button on remote control. (This has the same effect as pressing the , ,  buttons at the same time.)

**Notes:**

- Set the Remote ID "On" to operate the ID remote control.  
If Remote ID is set to "On", you can use the remote control without identical ID number during option menu display. (see page 55)
- The ID remote control cannot be used when ID select is set to anything other than 0, and the remote control ID is not the same as the ID select number (see page 55).

# SET UP for PORTRAIT

Divide an input image into 3 parts, and display one of them to a plasma display which is set vertically. The image will be enlarged 3 times and rotated 90-degree.


(Example)

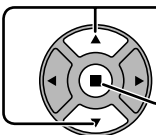



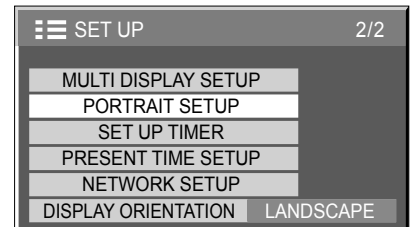
## Notes:

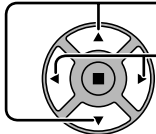

- When using the PORTRAIT function with displays set vertically, "DISPLAY ORIENTATION" in SET UP menu has to be set to "PORTRAIT" (see page 44).
- Turn up the power switch for the upward direction when you set Display vertically.
- During Portrait display, the 3D images are displayed as 2D images.

## How to setup PORTRAIT

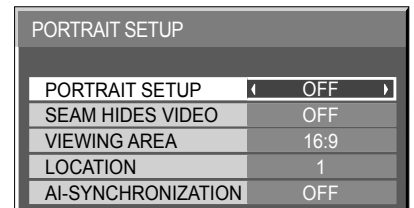
**1**  Press to display the SET UP menu.

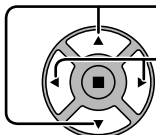

**2**  Press to select the PORTRAIT SETUP.  
 Press to display the "PORTRAIT SETUP" menu.

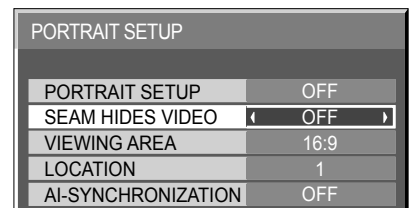




**3**  Press to select the PORTRAIT SETUP.  
 Press to select "ON" or "OFF".

**Note:**  
 If you set PORTRAIT SETUP to ON, MULTI DISPLAY SETUP will be unavailable.



**4**  Press to select SEAM HIDES VIDEO.  
 Press to select "OFF", "ON".

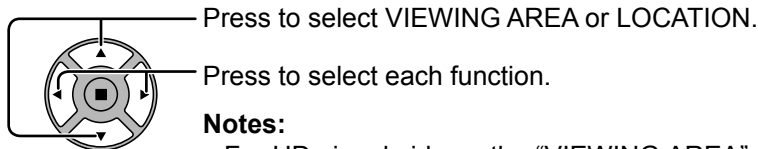


<p>To hide joints between displays.</p>  <p><b>Example</b></p> <p>Suitable for moving image display.</p> <p style="text-align: center;"><b>ON</b></p>	<p>To show joints between displays.</p>  <p><b>Example</b></p> <p>Suitable for still image display.</p> <p style="text-align: center;"><b>OFF</b></p>
--	--

## 5 VIEWING AREA / LOCATION

**VIEWING AREA:** Set a mode of image division for PORTRAIT function.

**LOCATION:** Set a location of image to be displayed for PORTRAIT function.



**Notes:**

- For HD signal videos, the “VIEWING AREA” is set at “16:9”, and cannot be changed.  
HD signal: 1125 (1080) / 60i • 50i • 60p • 50p • 24p • 25p • 30p • 24sF, 750 (720) / 60p • 50p, 1250 (1080) / 50i
- When “VIEWING AREA” is “16:9”, the aspect mode is set to “FULL”.

PORTRAIT SETUP	
PORTRAIT SETUP	OFF
SEAM HIDES VIDEO	OFF
VIEWING AREA	16:9
LOCATION	1
AI-SYNCHRONIZATION	OFF

### LOCATION setting

**When PORTRAIT SETUP “ON”:**

Display the image of the selected LOCATION.



**When PORTRAIT SETUP is “OFF”:**

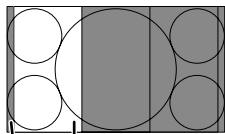
Represent an area of the selected LOCATION at a normal brightness and darken the rest of it.



### VIEWING AREA and LOCATION

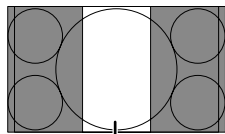
The mode of image division and the LOCATION by setting of VIEWING AREA is as follows.

VIEWING AREA: 16:9

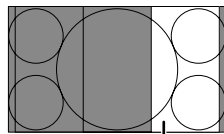


LOCATION 1

Undisplayed area (48 dots)



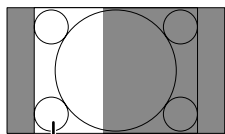
LOCATION 2



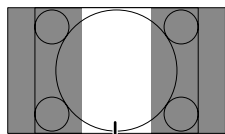
LOCATION 3

Suitable to display FULL images. NORMAL (4:3) images extend transversely. Both right and left sides of the image are cut by 48 dots.

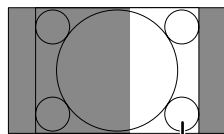
VIEWING AREA: 4:3



LOCATION 1



LOCATION 2

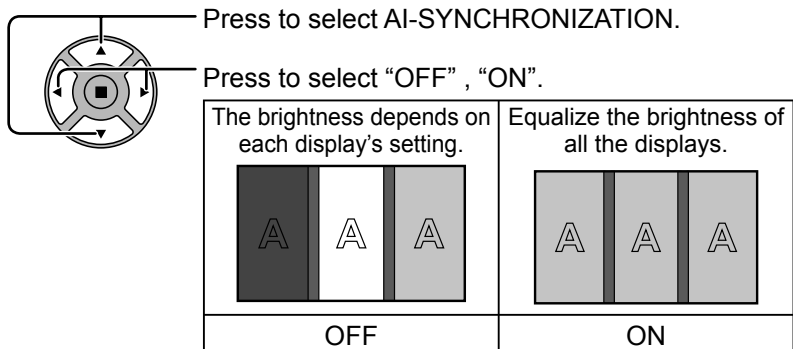


LOCATION 3

4:3 images are displayed without changing aspect ratio. Although the images of each LOCATION overlap, you can adjust POS./SIZE to display the image normally. (see page 26)

## 6 AI-SYNCHRONIZATION

Adjust to equalize the brightness of the 3 displays when using PORTRAIT setting.



PORTRAIT SETUP	
PORTRAIT SETUP	OFF
SEAM HIDES VIDEO	OFF
VIEWING AREA	16:9
LOCATION	1
AI-SYNCHRONIZATION	OFF

**Notes:**

- If you set AI-SYNCHRONIZATION to ON, the following menu will be unavailable and these settings will be fixed to the initial values.  
PICTURE menu: COLOR, TINT, INPUT LEVEL (ADVANCED SETTINGS)
- This function cannot be adjusted during input from VIDEO terminal.

## 7



Press to exit from adjust mode.




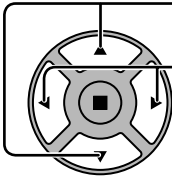

# SET UP for Input Signals

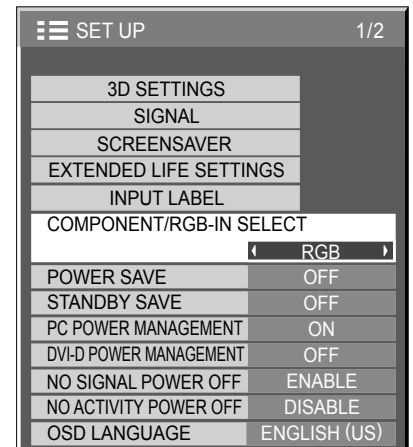
## COMPONENT / RGB IN SELECT

Select to match the signals from the source connected to the Component / RGB or PC input terminals.

Y, P<sub>B</sub>, P<sub>R</sub> signals ⇔ "COMPONENT"

RGB signals ⇔ "RGB"

-  Press to display the SET UP menu.
-  Press to select the "COMPONENT / RGB-IN SELECT".  
Press to select the desired mode.  
COMPONENT ← → RGB
-  Press to exit from adjust mode.



SET UP 1/2	
3D SETTINGS	
SIGNAL	
SCREENSAVER	
EXTENDED LIFE SETTINGS	
INPUT LABEL	
COMPONENT/RGB-IN SELECT	RGB
POWER SAVE	OFF
STANDBY SAVE	OFF
PC POWER MANAGEMENT	ON
DVI-D POWER MANAGEMENT	OFF
NO SIGNAL POWER OFF	ENABLE
NO ACTIVITY POWER OFF	DISABLE
OSD LANGUAGE	ENGLISH (US)

### Note:


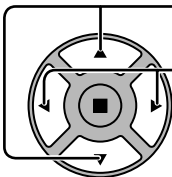

Make setting of the selected input terminal (COMPONENT/RGB IN or PC IN).

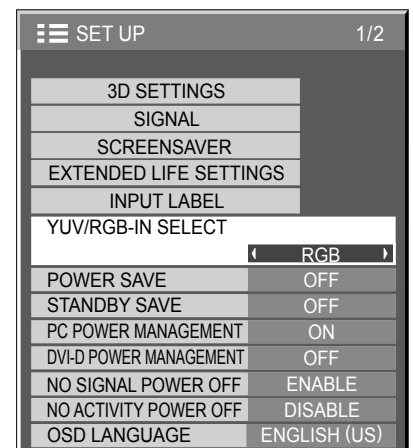
## YUV / RGB IN SELECT

Select to match the signals from the source connected to the DVI input terminals.

YUV signals ⇔ "YUV"

RGB signals ⇔ "RGB"

-  Press to display the SET UP menu.
-  Press to select the "YUV / RGB-IN SELECT".  
Press to select the desired mode.  
YUV ← → RGB
-  Press to exit from adjust mode.



SET UP 1/2	
3D SETTINGS	
SIGNAL	
SCREENSAVER	
EXTENDED LIFE SETTINGS	
INPUT LABEL	
YUV/RGB-IN SELECT	RGB
POWER SAVE	OFF
STANDBY SAVE	OFF
PC POWER MANAGEMENT	ON
DVI-D POWER MANAGEMENT	OFF
NO SIGNAL POWER OFF	ENABLE
NO ACTIVITY POWER OFF	DISABLE
OSD LANGUAGE	ENGLISH (US)


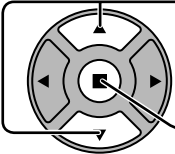
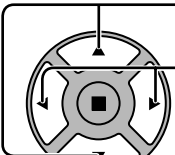
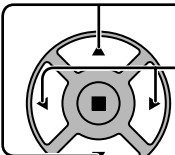
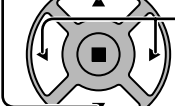

### Notes:

- Selection may not be possible, depending on which optional board is installed.
- Make setting of the selected input terminal (SLOT or DVI-D IN).

## SIGNAL menu

**Note:**

“SIGNAL” setup menu displays a different setting condition for each input signal.

- 1  Press to display the SET UP menu.
- 2  Press to select the “SIGNAL”.  
 Press to display the SIGNAL menu.
- 3  Press to select the menu to adjust.  
 Press to adjust the menu.
- 4  Press to exit from adjust mode.

SET UP 1/2	
3D SETTINGS	
SIGNAL	
SCREENSAVER	
EXTENDED LIFE SETTINGS	
INPUT LABEL	
COMPONENT/RGB-IN SELECT	
POWER SAVE	RGB
STANDBY SAVE	OFF
PC POWER MANAGEMENT	OFF
DVI-D POWER MANAGEMENT	ON
NO SIGNAL POWER OFF	OFF
NO ACTIVITY POWER OFF	ENABLE
OSD LANGUAGE	DISABLE
	ENGLISH (US)

Press ACTION (■) button  
For VIDEO (S VIDEO)  
For RGB

SIGNAL [ VIDEO ]	
3D Y/C FILTER (NTSC)	ON
COLOR SYSTEM	AUTO
3 : 2 PULLDOWN	OFF
NOISE REDUCTION	OFF

SIGNAL [ RGB ]	
SYNC	AUTO
3 : 2 PULLDOWN	OFF
XGA MODE	AUTO
NOISE REDUCTION	OFF
H-FREQ.	63.98 kHz
V-FREQ.	60.02 Hz
SIGNAL FORMAT	1280×1024/60i

For COMPONENT

SIGNAL [ COMPONENT ]	
SYNC	AUTO
3 : 2 PULLDOWN	OFF
XGA MODE	AUTO
NOISE REDUCTION	OFF
H-FREQ.	63.98 kHz
V-FREQ.	60.02 Hz
SIGNAL FORMAT	1280×1024/60i

For Digital

SIGNAL [ Digital ]	
3 : 2 PULLDOWN	OFF
NOISE REDUCTION	OFF
H-FREQ.	63.98 kHz
V-FREQ.	60.02 Hz
DOT CLOCK FREQ.	108.0 MHz
SIGNAL FORMAT	1280×1024/60i

### • 3D Y/C FILTER (NTSC)

This menu is displayed when BNC Dual Video Terminal Board (TY-FB9BD) is installed to the unit.

Set this menu when the moving image looks unnatural during Video (S Video) input signal.

ON ↔ OFF

**Note:**

When ON, this setting only affects NTSC input signals.

### • COLOR SYSTEM

→AUTO↔PAL↔SECAM↔M.NTSC↔NTSC←

Set the color system to match the input signal. When “AUTO” is set, COLOR SYSTEM will be automatically selected from NTSC/PAL/SECAM/M.NTSC.

To display PAL60 signal, select “AUTO” or “PAL”.

**If the image becomes unstable:**

With the system set on Auto, under conditions of low level or noisy input signals the image may in rare cases become unstable. Should this occur, set the system to match the format of the input signal.

### • 3:2 PULLDOWN

When “ON”, the display attempts to reproduce a more natural interpretation of sources such as movie pictures, which are recorded at 24 frames per second.

If the picture is not stable, turn the setting to “OFF”.

ON ↔ OFF

**Note:**

When ON, this setting only affects the following signal input:

- NTSC / PAL signal input during Video (S Video) input signal.
- 525i(480i), 625i(575i), 1125(1080)/60i signal input during “COMPONENT” input signal.

### • XGA MODE

This menu is displayed when the input signal is analog (Component/PC).

This unit supports three types of XGA signals with 60Hz vertical frequency having different aspect ratios and sampling rates (1,024 × 768 @ 60Hz, 1,280 × 768 @ 60Hz and 1,366 × 768 @ 60Hz).

AUTO ↔ 1024×768 ↔ 1280×768 ↔ 1366×768

**AUTO:** Automatically selected from 1024×768/1280×768/1366×768.

Switch the setting to suit the input signal for better display depends on the angle of view or display resolution condition.

**Note:**

After making this setting, be sure to make each adjustment (such as “AUTO SETUP”) on the “POS./SIZE” menu as necessary. (see page 26)

## • SYNC

This function operates only during input from PC IN terminal.

### Setting RGB sync signal

Confirm that the input is set to RGB input (this setting is valid only for RGB input signal).

**AUTO:** The H and V sync or synchronized signal is automatically selected. If both input, it is selected the H and V sync.



**ON G:** Uses a synchronized signal on the Video G signal, which is input from the G connector.



**VBS:** Uses a synchronized signal of Composite Sync input, which is input from the HD connector.

### Setting Component sync signal

Confirm that the input is set to Component input (this setting is valid only for Component input signal).

**AUTO:** The H and V sync or synchronized signal is automatically selected. If both input, it is selected the H and V sync.



**ON Y:** Uses a synchronized signal on the Video Y signal, which is input from the Y connector.

#### Note:

Signals input to COMPONENT/RGB IN terminals correspond to SYNC ON G or SYNC ON Y.

## • SDI THROUGH

Set the active through function of the Dual Link HD-SDI Terminal Board (TY-FB11DHD).

**OFF** ↔ **ON**

**ON:** Enables active through.

**OFF:** Disables active through.

#### Note:

Settings can only be performed for this menu when a slot mounted with a Dual Link HD-SDI Terminal Board (TY-FB11DHD) is selected.

## • FRAME CREATION

Automatically compensates the picture frame rate and removes juddering movements to make the images smooth.

**OFF** ↔ **MIN\*** ↔ **MID** ↔ **MAX**

\* "MIN" can be selected during 2D viewing.

#### Note:

Depending on the contents, images may be noisy. To prevent the noise, change the setting.

## • 3D REFRESH RATE

Reduces juddering or flicker of image due to lighting interference during 3D viewing.

**100Hz** ↔ **120Hz**

#### Note:

This setting is disabled when "FRAME CREATION" is set to "OFF".

## • HDMI RANGE

Switches the dynamic range according to the input signal from HDMI terminal.

**VIDEO(16-235)** ↔ **FULL(0-255)** ↔ **AUTO**

**VIDEO(16-235):** If the input signal is the video range, Example: HDMI terminal output for DVD player

**FULL(0-255):** If the input signal is full range, Example: HDMI terminal output for personal computer

**AUTO:** Switches the dynamic range automatically between "VIDEO(16-235)" and "FULL(0-255)" according to the input signal.

#### Note:

This function can be set only for HDMI signal input.

## • SDI SIGNAL FORMAT

This menu is available only when selecting a slot that the Dual HD-SDI Terminal Board for 3D (TY-FB30DHD3D) is installed and set the input signal format for the board.

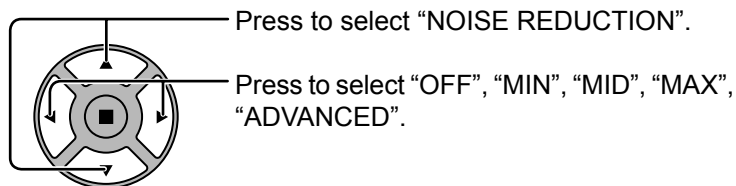
**AUTO** ↔ **YCbCr(4:2:2) 10bit** ↔ **YCbCr(4:2:2) 10bit 60p/50p** ↔ **YCbCr(4:4:4) 10bit** ↔ **RGB(4:4:4) 10bit**  
↔ **YCbCr(4:2:2) 12bit** ↔ **YCbCr(4:4:4) 12bit** ↔ **RGB(4:4:4) 12bit** ↔ **XYZ(4:4:4) 12bit**

**AUTO:** Automatically selects the signal format according to the input signal.

# SET UP for Input Signals

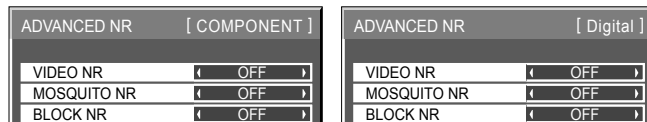
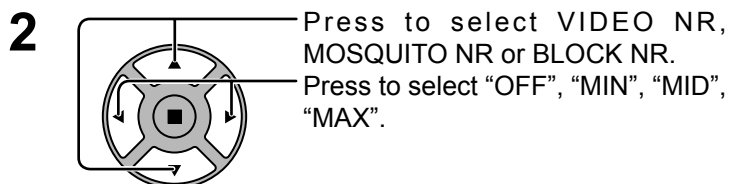
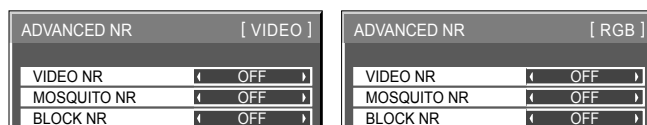
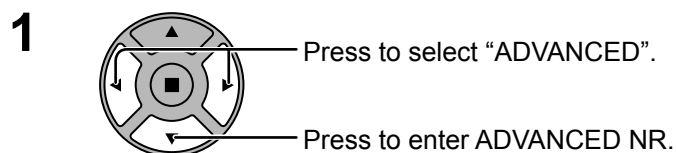
## • NOISE REDUCTION

Sets the following three NR (Noise Reduction) functions together.  
VIDEO NR, MOSQUITO NR, BLOCK NR



## Advanced NR

Sets the three NR functions separately.



- VIDEO NR:** Automatically reduces unwanted picture noise.
- MOSQUITO NR:** Reduces mosquito noise around subtitles on MPEG videos.
- BLOCK NR:** Reduces block noise when playing MPEG videos.

### Note:

NOISE REDUCTION cannot be adjusted while a PC signal is being applied.

## • Input signal display

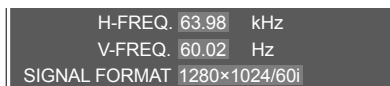
Displays the frequency and the type of the current input signal.

This display is valid only for COMPONENT/RGB/PC and Digital input signal.

Display range:

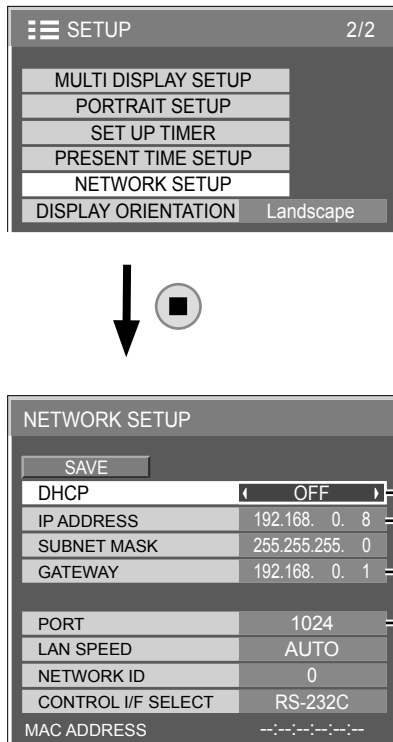
- Horizontal 15 - 110 kHz
- Vertical 48 - 120 Hz

The dot clock frequency is displayed during DVI signal input.



# Network Setup

Make the various settings to use the network function.

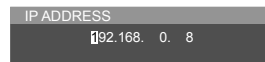






## DHCP, IP ADDRESS, SUBNET MASK, and GATEWAY settings


**1** Set DHCP.  
When “OFF” is selected, IP ADDRESS and other settings can be set manually.


**2** Select the item and press .


**3** Enter an address.



① Use   to select a digit.  
② Use   to change a number.

③ Press .

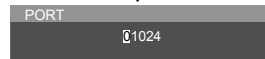
Pressing  will cancel the address change.





**4** Select “SAVE” and press .

## PORT setting


**1** Select “PORT” and press .

**2** Enter a port number.



① Use   to select a digit.  
② Use   to change a number.

③ Press .

Pressing  will cancel the port number change.

## SAVE

Save the current network Setup. Each value set for DHCP, IP address, Subnet mask, and Gateway will be saved. If “NG” is displayed, check the same IP address is not used within the same network.

## DHCP (DHCP client function)

To obtain an IP address automatically using a DHCP server, set this to “ON”. If DHCP server is not used, set this to “OFF”.

## IP ADDRESS (IP address display and setting)

Enter an IP address if DHCP server is not used.

## SUBNET MASK (Subnet mask display and setting)

Enter a subnet mask if DHCP server is not used.

## GATEWAY (Gateway address display and setting)

Enter a gateway address if DHCP server is not used.

## PORT

Set the port number used for command control.

The available setting range is 1024 – 65535.

When the PLink™ protocol is used, the port setting is not necessary.

## LAN SPEED

Set the connection speed of the LAN environment.

Select the value from AUTO, 10 HALF, 10 FULL, 100 HALF or 100 FULL.

## NETWORK ID

Set the ID to identify this unit.

The available setting range is 0 – 99.

## CONTROL I/F SELECT

Set whether to control with RS-232C (serial) or LAN. When “LAN” is set, the slot power is turned on, and power indicator is lit orange under the condition of power off with remote control (stand-by state), regardless of the “Slot power” setting. (see page 56)


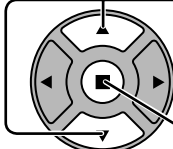
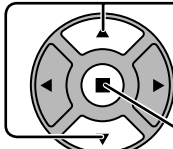
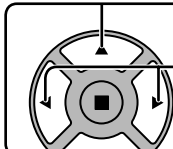
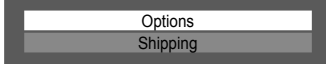

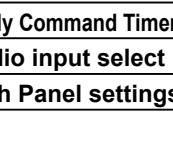

## MAC ADDRESS

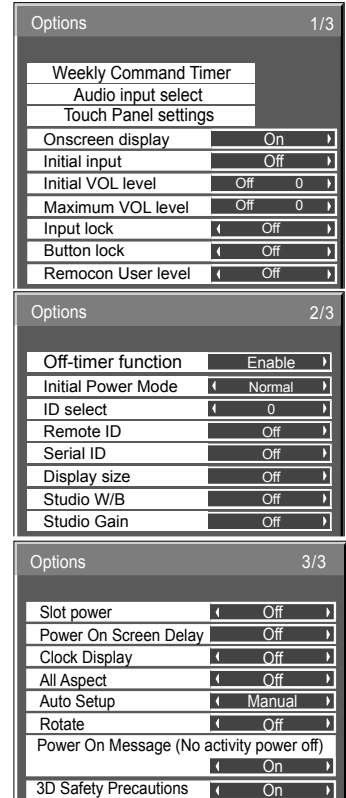
Display the MAC address of this unit. However, the MAC address is not displayed when the “CONTROL I/F SELECT” is set to “RS-232C”.




## Notes:

- To use a DHCP server, make sure the DHCP server is started.
- Contact your network administrator for details on settings.

# Options Adjustments





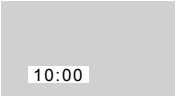


- 1  Press to display the SET UP menu.
- 2  Press to select "OSD LANGUAGE".  
 Press for more than 3 seconds.
- 3  Press to select "Options".  
 Press to display the Options menu.
- 4  Press to select your preferred menu.  
 Press to adjust the menu.
- 5  Press to exit from Options menu.



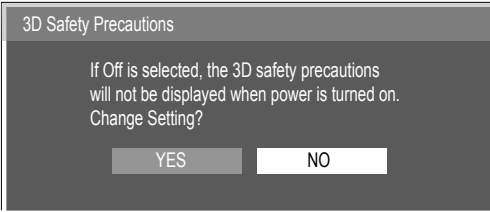
Item	Adjustments
<b>Weekly Command Timer</b>	Sets Weekly Command Timer. (see page 57)
<b>Audio input select</b>	Set up the sound when an image input is selected. (see page 59)
<b>Touch Panel settings</b>	Set while using Touch Panel (available as an option). (see page 60)
<b>Onscreen display</b>	<p><b>On:</b> Displays all the following on screen.</p> <ul style="list-style-type: none"> <li>• Power on display</li> <li>• Input signal switch display</li> <li>• No signal display</li> <li>• Mute and the remaining time of off-timer after  was pressed.</li> </ul> <p><b>Off:</b> Hides all the items above from view.</p>
<b>Initial input</b>	<p>Adjusts the input signal when the unit is turned on.</p> <p><b>Off</b> ↔ <b>PC</b> ↔ <b>SLOT INPUT</b>*1 ↔ <b>VIDEO</b> ↔ <b>COMPONENT</b>*2 ↔ <b>HDMI</b> ↔ <b>DVI</b></p> <p>*1 "SLOT INPUT" is displayed when an optional Terminal Board is installed.            When a Terminal Board with dual input terminals is installed, "SLOT INPUT A" and "SLOT INPUT B" are displayed.            *2 "COMPONENT" may be displayed as "RGB" depending on the setting of "COMPONENT/RGB-IN SELECT". (see page 49)</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Only the adjusted signal is displayed. (see page 18)</li> <li>• This menu is available only when "Input lock" is "Off".</li> </ul>
<b>Initial VOL level</b>	<p>Press  button to adjust the volume when the unit is turned on.</p> <p><b>Off</b> ↔ <b>On</b></p> <p><b>Off:</b> Sets normal volume.  <b>On:</b> Sets your preferred volume.</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• When "Maximum VOL level" is "On", the volume can only be adjusted between 0 and your maximum range.</li> <li>• You can hear the changed volume regardless of your volume setting before opening the options menu if you adjust the volume when "Initial VOL level" is "On" and cursor is on the menu.</li> </ul>
<b>Maximum VOL level</b>	<p>Press  button to adjust the maximum volume.</p> <p><b>Off</b> ↔ <b>On</b></p> <p><b>Off:</b> Sets auto maximum volume.  <b>On:</b> Sets your preferred maximum volume.</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• If the "Maximum VOL level" is set lower than the "Initial VOL level", the "Initial VOL level" automatically becomes the same as the "Maximum VOL level".</li> <li>• The volume display can go up to 63 regardless of the settings.</li> <li>• You can hear the changed volume regardless of your volume setting before opening the options menu if you adjust the volume when "Maximum VOL level" is "On" and cursor is on the menu.</li> </ul>

Item	Adjustments
<b>Input lock</b>	<p>Locks the input switch operation.  <b>Off</b> ↔ <b>PC</b> ↔ <b>SLOT INPUT*1</b> ↔ <b>VIDEO</b> ↔ <b>COMPONENT*2</b> ↔ <b>HDMI</b> ↔ <b>DVI</b>                      *1 "SLOT INPUT" is displayed when an optional Terminal Board is installed.                      When a Terminal Board with dual input terminals is installed, "SLOT INPUT A" and "SLOT INPUT B" are displayed.                      *2 "COMPONENT" may be displayed as "RGB" depending on the setting of "COMPONENT/RGB-IN SELECT".                      (see page 49)  <b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Only the adjusted signal is displayed (see page 18).</li> <li>• Input switch can be used when this is set to "Off".</li> </ul>
<b>Button lock</b>	<p><b>Off</b> ↔ <b>MENU&amp;ENTER</b> ↔ <b>On</b>  <b>Off:</b> All the buttons on main unit can be used.  <b>MENU&amp;ENTER:</b> Locks  and  buttons on main unit.  <b>On:</b> Locks all the button on main unit.                      Sets Button lock with the unit buttons in the following procedure.  <b>Off:</b> Press  four times → Press  four times → Press  four times → Press  four times  <b>MENU&amp;ENTER:</b> Press  four times → Press  four times → Press  four times → Press  four times → Press  four times → Press  four times  <b>On:</b> Press  four times → Press  four times → Press  four times → Press  four times</p>
<b>Remocon User level</b>	<p><b>Off</b> ↔ <b>User1</b> ↔ <b>User2</b> ↔ <b>User3</b>  <b>Off:</b> You can use all of the buttons on the remote control.  <b>User1:</b> You can only use , , , , ,  buttons on the remote control.  <b>User2:</b> You can only use  button on the remote control.  <b>User3:</b> Locks all the buttons on remote control.</p>
<b>Off-timer function</b>	<p><b>Enable:</b> Enables the "Off-timer function".  <b>Disable:</b> Disables the "Off-timer function".  <b>Note:</b> When "Disable" is set, the Off-timer is cancelled.</p>
<b>Initial Power Mode</b>	<p><b>Normal</b> ↔ <b>Standby</b> ↔ <b>On</b>                      Sets the power mode of the unit for when the power recovers from failure or after plugging off and in again.  <b>Normal:</b> Power returns in as the same state as before the power interruption.  <b>Standby:</b> Power returns in standby mode. (Power Indicator : red/orange)  <b>On:</b> Power returns in power On. (Power Indicator : green)  <b>Note:</b> When using multiple displays, "Standby" is preferred to be set in order to reduce a power load.</p>
<b>ID select</b>	<p>Sets panel ID number when panel is used in "Remote ID" or "Serial ID".                      Set value range: 0 - 100                      (Standard value: 0)</p>
<b>Remote ID</b>	<p>The setting of this menu is valid only when using ID remote control.  <b>Off:</b> Disables ID remote control functions. You can use normal remote control operations.  <b>On:</b> Enable ID remote control functions.  <b>Note:</b> To use the ID remote control function, it is necessary to set each ID number of remote control and display unit. About the setting method, please refer to "ID Remote Control Function" (see page 46) and "ID select" (above-mentioned).</p>
<b>Serial ID</b>	<p>Sets the panel ID Control.  <b>Off:</b> Disables external control by the ID.  <b>On:</b> Enables the external control by the ID.</p>
<b>Display size</b>	<p>Adjusts the image display size on screen.  <b>Off:</b> Sets the normal image display size on screen.  <b>On:</b> Sets the image display size approximately 95 % of the normal image display.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p><b>Off</b></p> </div> <div style="text-align: center;"> <p><b>On</b></p> </div> </div> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• This setting is valid only when the input signals are as follows:                          NTSC, PAL, SECAM, M.NTSC, PAL60, PAL-M, PAL-N (Video)                          525i, 525p, 625i, 625p, 750/60p, 750/50p, 1125/60i, 1125/50i, 1125/24sF, 1125/25p, 1125/24p, 1125/30p, 1125/60p, 1125/50p, 1250/50i (Component Video, RGB, DVI, SDI, HDMI)</li> <li>• This setting is invalid when digital zoom, Multi display or Portrait display is selected.</li> <li>• When "Display size" is set to "On", "H-POS" and "V-POS" in "POS./SIZE" can be adjusted.</li> <li>• Refer to each board's operating instruction for DVI, SDI, HDMI's corresponding signals.</li> </ul>

# Options Adjustments



Item	Adjustments
Studio W/B	<p><b>Off:</b> Nullify all the settings adjusted.  <b>On:</b> Sets the color temperature for TV studio.  <b>Note:</b> Valid only when the "WARM" is set as "COLOR TEMP" in PICTURE menu.</p>
Studio Gain	<p>Sharpens the contrast for a better view when a part of the image is too light to see.  <b>Off:</b> Disables "Studio Gain".  <b>On:</b> Enables "Studio Gain".  <b>Note:</b> This setting is valid only when the input signals are as follows:            Component Video, RGB (analog), SDI, HDMI</p>
Slot power	<p><b>Off</b> ↔ <b>Auto</b> ↔ <b>On</b>  <b>Off:</b> Power is not transmitted to the slot power.  <b>Auto:</b> Power is transmitted to the slot power only when main power is on.  <b>On:</b> Power is transmitted to the slot power when main power is on or in the standby state.  <b>Note:</b> In some cases, power is transmitted to the slot power when main power is on or in the standby state regardless of the slot power setting.</p>
Power On Screen Delay	<p><b>Off</b> ↔ <b>1</b> ↔ <b>2</b> ↔ <b>3...</b> ↔ <b>30</b>            You can set the power-on delay time of the displays to reduce the power load, when you press  to turn on the multiple displays that are set together, for example, on MULTI DISPLAY system.            Set each display's setting individually.  <b>Off:</b> The display will be turned on at the same time as  is pressed.  <b>1 to 30 (sec.):</b> Set the power-on delay time (second).            After pressing , the display will be powered on with time delay depending on this setting.  <b>Notes:</b></p> <ul style="list-style-type: none"> <li>• During this function is working, the power indicator is blinking green.</li> <li>• This function also works when the power recovers from failure or after plugging off and in again the power cord. After you unplug and plug the power cord in while the unit is in standby mode and also the power is being supplied to a terminal board, the unit will start supplying the power to the board with time delay according to the setting.</li> </ul> <p>The power indicator lights up red first and it turns orange when the power starts being supplied to the board.</p>
Clock Display	<p><b>Off:</b> Not display the clock.  <b>On:</b> Display the clock.            The clock is displayed at the lower left of the screen when  button is pressed.  <b>Note:</b> When "PRESENT TIME SETUP" is not set, the clock is not displayed even if "Clock Display" is "On" (see page 35)</p> 
All Aspect	<p>Sets All Aspect mode (advanced aspect setting) or default aspect mode.            With each press of  button, the aspect changes in the selected mode.  <b>Off:</b> Default aspect mode  <b>On:</b> All Aspect mode            Aspect mode of each setting is as follows:            (Example: HD signal)  <b>Off</b> 4:3→H-FILL→ZOOM→FULL→JUST  <b>On</b> 4:3 (1)→4:3 (2)→4:3 Full→Zoom1→Zoom2→Zoom3→16:9→14:9→Just1→Just2</p>
Auto Setup	<p>Sets the operational mode of the automatic position adjustment in the POS./SIZE menu.  <b>Manual:</b> Automatic position adjustment starts when  is pressed on the remote control or automatic position adjustment is executed from the POS./SIZE menu.  <b>Auto:</b> Other than remote control or menu operation, automatic position adjustment starts:            When the display power is turned ON.            When the input signal is switched.</p>
Rotate	<p><b>Off:</b> Does not rotate the image.  <b>On:</b> Rotates the image 180 degrees.  <b>Note:</b>            During the image is rotated, the 3D images are displayed as 2D images.</p>
Power On Message (No activity power off)	<p>Whether to show/hide No activity power off Precautions at the time of power ON is set.  <b>On:</b> The warning precautions are shown at the time of power ON.  <b>Off:</b> The warning precautions are not shown at the time of power ON.  <b>Note:</b>            This setting is enabled only if "NO ACTIVITY POWER OFF" is "ENABLE" (see page 42).</p>



Item	Adjustments
3D Safety Precautions	<p>3D Safety Precautions show/hide is set during power ON.  <b>On:</b> 3D Safety Precaution is shown every time when the power is ON.  <b>Off:</b> 3D Safety Precaution is not shown when the power is ON.                      When the setting changes from "On" to "Off", the confirmation screen is displayed as below.                      Pressing "YES" switches the setting.</p> 

## Normalization

When both main unit buttons and remote control are disabled due to the "Button lock", "Remocon User level" or "Remote ID" adjustments, set all the values "Off" so that all the buttons are enabled again.

Press the  button on main unit together with  button on the remote control and hold for more than 5 seconds. The "Shipping" menu is displayed and the lock is released when it disappears.

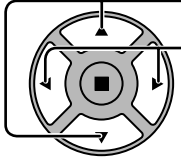
# Weekly Command Timer

You can set 7-day timer programming by setting time and command.

### Note:

Before setting Weekly Command Timer, set PRESENT TIME SETUP. (see page 35)

**1**

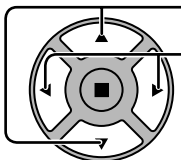


Press to select Function.  
 Press to select "On".

**Note:**

- When Function is set to On, SET UP TIMER (see page 35) is unavailable and INTERVAL / TIME OF DAY in MODE of SCREENSAVER (see page 37) cannot be selected.

**2**

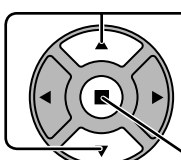


Press to select a day.  
 Press to select a program number.

**Note:**

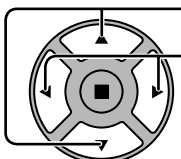
- You can set the program from 1 to 7.  
 --- indicates unset.

**3**

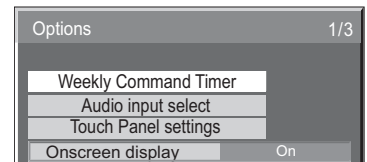


Press to select Program Edit.  
 Press to show the Program Edit screen.

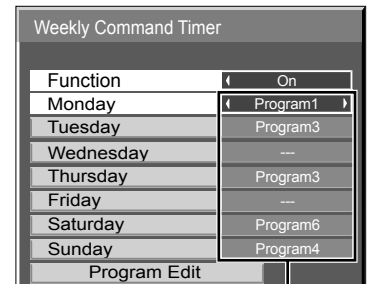
**4**



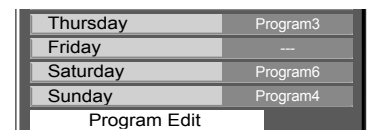
Press to select Program.  
 Press to change the program numbers (1-7).



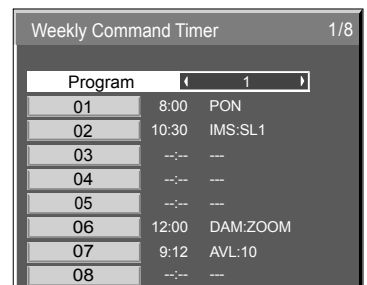
Press ACTION (■) button



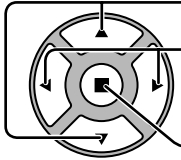
Program number

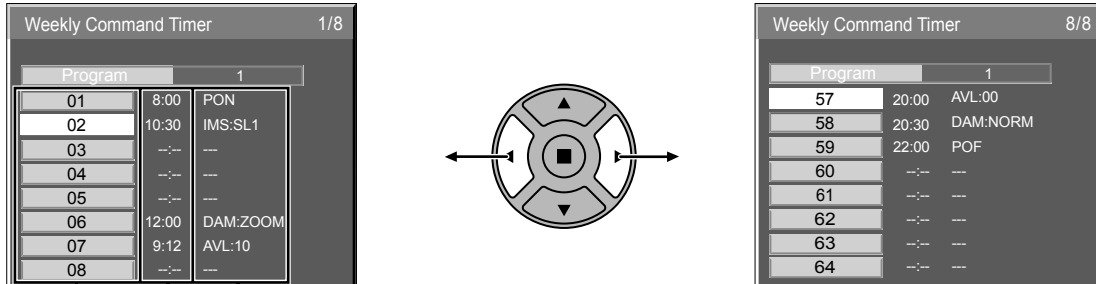


Program Edit screen



# Options Adjustments

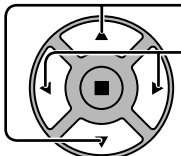
- 5**
- 
- Press to select a command number.
  - Press to show the previous / next command pages (1-8) of the selected program.
  - Press to show the command setting screen.



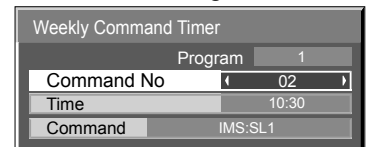
Weekly Command Timer 1/8		
Program 1		
01	8:00	PON
02	10:30	IMS:SL1
03	--:--	---
04	--:--	---
05	--:--	---
06	12:00	DAM:ZOOM
07	9:12	AVL:10
08	--:--	---

Weekly Command Timer 8/8		
Program 1		
57	20:00	AVL:00
58	20:30	DAM:NORM
59	22:00	POF
60	--:--	---
61	--:--	---
62	--:--	---
63	--:--	---
64	--:--	---

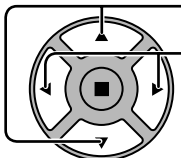
Command (--- indicates unset)  
Set time of timer (--:-- indicates unset)  
Command numbers

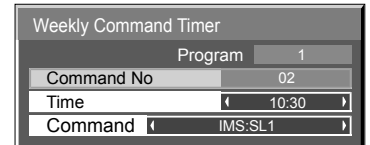
- 6**
- 
- Press to select Command No.
  - Press to select a command number.

## Command setting screen



Weekly Command Timer	
Program 1	
Command No	◀ 02 ▶
Time	◀ 10:30 ▶
Command	IMS:SL1 ▶

- 7**
- 
- Press to select Time / Command.
  - Press to set each item.
- Time: Set the time to execute a command program.  
Pressing “◀” or “▶” button once changes “Time” 1 minute.  
Pressing “◀” or “▶” button continuously changes “Time” by 15 minutes.
- Command: Select a command to execute at the set time. This unit has 64 commands to set.  
(see page 70)



Weekly Command Timer	
Program 1	
Command No	◀ 02 ▶
Time	◀ 10:30 ▶
Command	IMS:SL1 ▶

### Notes:

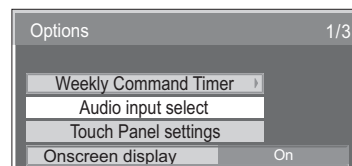
- Command is performed in order of execution time, regardless of the command number.
- If a command execution time overlaps with that of other commands, these commands are performed in number order.
- Pressing  $\bigcirc^N$ , Time becomes --:-- and Command becomes ---.

### Note:

Press  $\bigcirc^R$  to return to the previous screen.

# Audio input select

Set up the sound when an image input is selected.



↓ Press ACTION (■) button

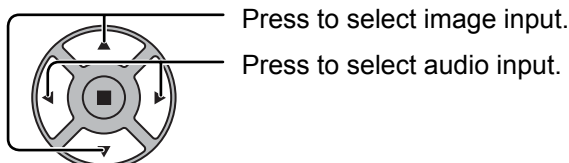
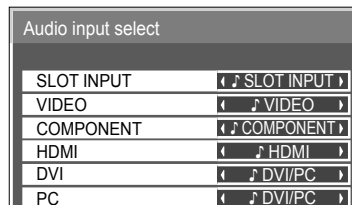


Image input	Audio input
[SLOT INPUT]*1	SLOT INPUT / VIDEO / COMPONENT / DVI/PC / NO AUDIO
[VIDEO]	SLOT INPUT / VIDEO / COMPONENT / DVI/PC / NO AUDIO
[COMPONENT]*2	SLOT INPUT / VIDEO / COMPONENT / DVI/PC / NO AUDIO
[HDMI]	SLOT INPUT / VIDEO / COMPONENT / HDMI / DVI/PC / NO AUDIO
[DVI]	SLOT INPUT / VIDEO / COMPONENT / DVI/PC / NO AUDIO
[PC]	SLOT INPUT / VIDEO / COMPONENT / DVI/PC / NO AUDIO

DVI/PC: Sound input for both DVI and PC.  
NO AUDIO: No audio input (Mute)

\*1 "SLOT INPUT" is displayed when a Terminal Board is installed.

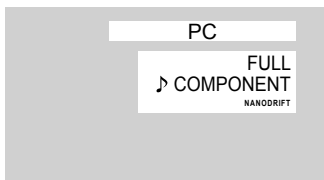
\*2 "COMPONENT" may be displayed as "RGB" depending on the setting of "COMPONENT/RGB-IN SELECT".  
(see page 49)

## When a Terminal Board with dual input terminals is installed

"SLOT INPUT" is displayed as "SLOT INPUT A" and "SLOT INPUT B" and independent settings are available. To set other image inputs, you can select "SLOT INPUT A" and "SLOT INPUT B".

Image input	Audio input
[SLOT INPUT A]	SLOT INPUT A / VIDEO / COMPONENT / DVI/PC / NO AUDIO
[SLOT INPUT B]	SLOT INPUT B / VIDEO / COMPONENT / DVI/PC / NO AUDIO
[VIDEO]	SLOT INPUT A / SLOT INPUT B / VIDEO / COMPONENT / DVI/PC / NO AUDIO
[COMPONENT]	SLOT INPUT A / SLOT INPUT B / VIDEO / COMPONENT / DVI/PC / NO AUDIO
[HDMI]	SLOT INPUT A / SLOT INPUT B / VIDEO / COMPONENT / HDMI / DVI/PC / NO AUDIO
[DVI]	SLOT INPUT A / SLOT INPUT B / VIDEO / COMPONENT / DVI/PC / NO AUDIO
[PC]	SLOT INPUT A / SLOT INPUT B / VIDEO / COMPONENT / DVI/PC / NO AUDIO

When Image input and Audio input differ from each other, the Audio input is displayed as below.

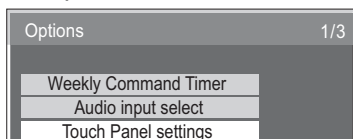


### Notes:

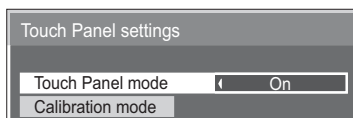
- HDMI Audio is selectable only for HDMI Input.
- You cannot set audio of B for SLOT INPUT A, or audio of A for SLOT INPUT B.

## Touch Panel settings (Settings when using Touch Panel)

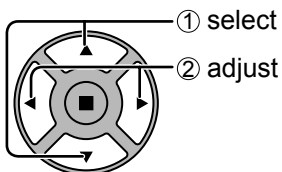
The mode to restrict NANODRIFT SAVER (see page 40) operation when using Touch Panel (available as an option) is set up.



↓ Press ACTION (■) button



Set "Touch Panel mode" to "On".




### NANODRIFT SAVER in Touch Panel mode: On

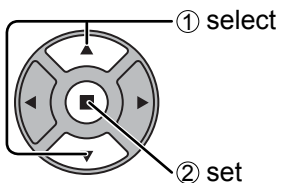
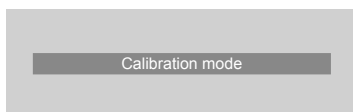
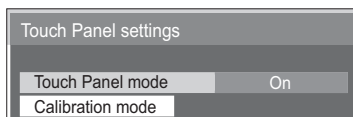
The value set for NANODRIFT turns into "ON" and displayed in gray.  
The moving distance of NANODRIFT is limited to 5 × 5 dots to prevent pointer drift on a touch panel.

### Calibration mode


This setting is used in calibrating a touch panel.

You can configure the setting if "Touch Panel mode" is "On".

Select "Calibration mode" and then press .



### When the menu is not displayed (normal screen)

Hold down  for over 3 seconds.

The screen is displayed in the middle and NANODRIFT is deactivated for 180 seconds. After 180 seconds or when you have the menu displayed with a remote control, Calibration mode is cancelled.

### Note:

For information on how to set up Calibration, please see Touch Panel instruction manual.

# Using Network Function

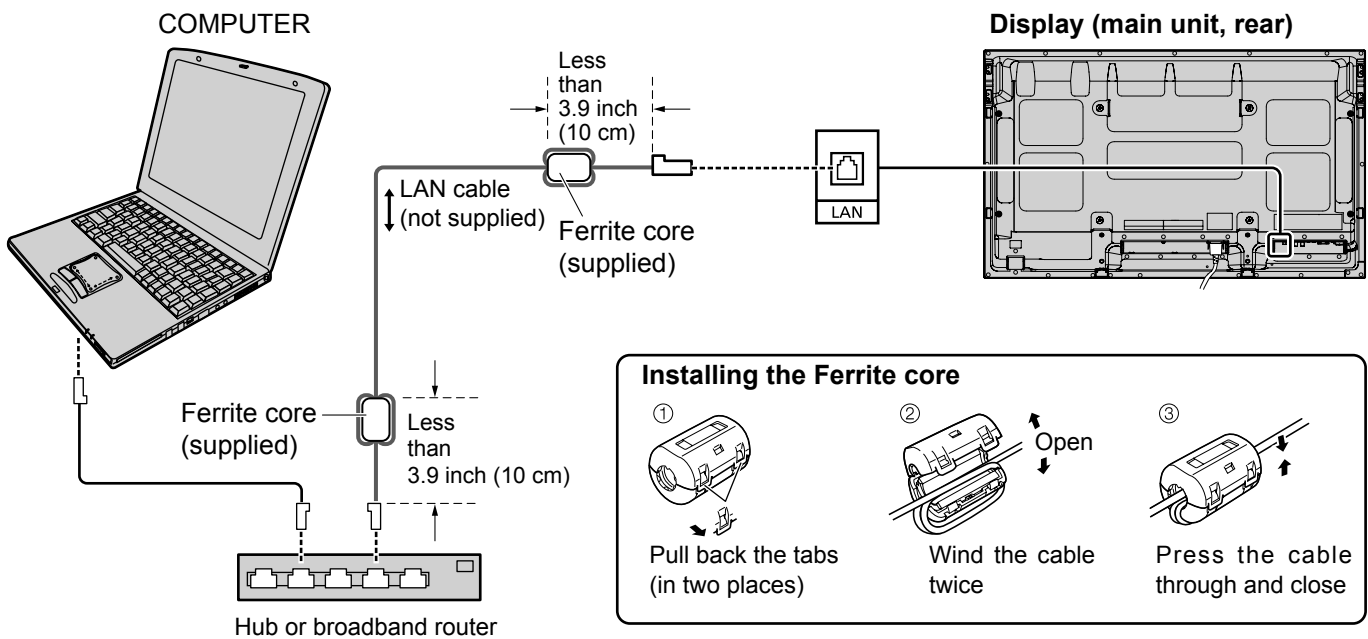
This unit has a network function to control the network connected display with your computer.

**Note:**

To use the network function, set each "NETWORK SETUP" setting and make sure to set the "CONTROL I/F SELECT" to "LAN". (see page 53)

When "LAN" is set, the slot power is turned on, and power indicator is lit orange under the condition of power off with remote control (stand-by state), regardless of the "Slot power" setting. (see page 56)

## Example of Network Connection



**Notes:**

- Make sure the broadband router or hub supports 10BASE-T/100BASE-TX.
- To connect a device using 100BASE-TX, use "category 5" LAN cable.
- Touching the LAN terminal with a statically charged hand (body) may cause damage due to its discharge. Do not touch the LAN terminal or a metal part of the LAN cable.
- For instructions on how to connect, consult your network administrator.

## Command Control

Network function of the unit can control the unit in the same way as serial control from a network.

**Supported commands**

Commands used in the serial control are supported. (see page 15)

**Note:**

Consult your local Panasonic dealer for detail instructions on command usage.

## PJLink™ Protocol

The network function of the unit conforms with PJLink™ class 1 and you can operate the following actions from your computer using PJLink™ protocol.

- Display setup
- Display status query

### Supported commands

Commands to control the unit with PJLink™ protocol are shown in the table below.

Command	Control	Remark
POWR	Power control	Parameter 0 = Standby 1 = Power "On"
POWR?	Power status query	Parameter 0 = Standby 1 = Power "On"
INPT	Input switch	Parameter See the parameter for command INST?
INPT?	Input switch query	
AVMT	Shutter control	Parameter 10 = Picture On (picture mute deactivated), 11 = Picture Off (picture on mute) 20 = Audio On (audio mute deactivated), 21 = Audio Off (audio on mute) 30 = Shutter mode Off (picture and audio mute deactivated) 31 = Shutter mode On (picture and audio on mute)
AVMT?	Shutter control query	Parameter 11 = Picture Off (picture on mute) 21 = Audio Off (audio on mute) 30 = Shutter mode Off (picture and audio mute deactivated) 31 = Shutter mode On (picture and audio on mute)
ERST?	Error status query	Parameter First byte: Means fan error. 0 or 2. Second byte: 0 Third byte: 0 Fourth byte: 0 Fifth byte: 0 Sixth byte: Means other error. 0 or 2. Meaning of the 0 – 2 settings: 0 = Error is not detected, 2 = Error
LAMP?	Lamp status query	Not supported
INST?	Input switch list query	Parameter Numbers 11 to 13 are depending on the slot installation condition 11: PC IN input (PC) When a single input terminal board is attached 11: SLOT input (SLOT INPUT) 12: PC IN input (PC) 21: VIDEO input (VIDEO) 31: HDMI input (HDMI) When a dual input terminal board is attached 11: SLOT input (SLOT INPUT A) 12: SLOT input (SLOT INPUT B) 13: PC IN input (PC) 22: COMPONENT/RGB IN input (COMPONENT) 32: DVI-D IN input (DVI)
NAME?	Projector name query	Returns empty character (no name information)
INF1?	Manufacturer name query	Returns "Panasonic"
INF2?	Model name query	Returns "TH-50PF30" (for 50-inch model)
INFO?	Other information query	Returns version number
CLSS?	Class information query	Returns "1"

### PJLink™ security authentication

Set "Panasonic" for the PJLink™ password.

- PJLink™ is a pending trademark in Japan, the United States, and other countries or areas.

# Using Web Browser Control

You can use a Web browser to control the unit and set up a network and password.

## Before Using Web Browser Control

To use the Web browser control, the unit and computer setups are required.

### Unit Setup

Set each "NETWORK SETUP" setting and make sure to set the "CONTROL I/F SELECT" to "LAN". (see page 53)

### Computer Setup

Disable the proxy server settings and enable JavaScript.

#### (Windows)

##### Disable proxy server settings

- 1 Display [Internet Properties] window.  
Click [Start] – [Control Panel] – [Network and Internet Connections] – [Internet Options].
- 2 Click the [Connections] tab and then [LAN Settings].
- 3 Deselect the [Use automatic configuration script] and [Use a proxy server for your LAN] boxes.
- 4 Click [OK].

##### Enable JavaScript

- 1 Display [Internet Properties] window.  
Click [Start] – [Control Panel] – [Network and Internet Connections] – [Internet Options].
- 2 Set the security level on the [Security] tab to [Default Level]. Alternatively enable [Active scripting] from the [Custom Level] button.

#### (Macintosh)

##### Disable proxy server settings

- 1 From the [Safari] menu, click [Preferences].  
General screen is displayed.
- 2 From the [Advanced] tab, click the [Change Settings...] button next to [Proxies]. Click [Proxies] and set up a proxy server.
- 3 Deselect the [Web Proxy] and [Automatic Proxy Configuration] boxes.
- 4 Click [Apply Now].

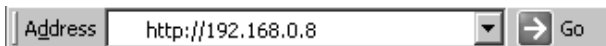
##### Enable JavaScript

- 1 Display [Security] of Safari.
- 2 Select [Enable JavaScript] under [Web content].

## Access from Web Browser

Access to the TOP screen of the Web browser control using a Web browser.

- 1 Start your Web browser.
- 2 Enter the IP address set with the "NETWORK SETUP" of the unit. (see page 53)



- 3 Enter the user name and password when the Authentication screen is displayed.

### Authentication screen



- 4 Click [OK].  
After logged in, the TOP screen of the Web browser control is displayed. (see page 64)

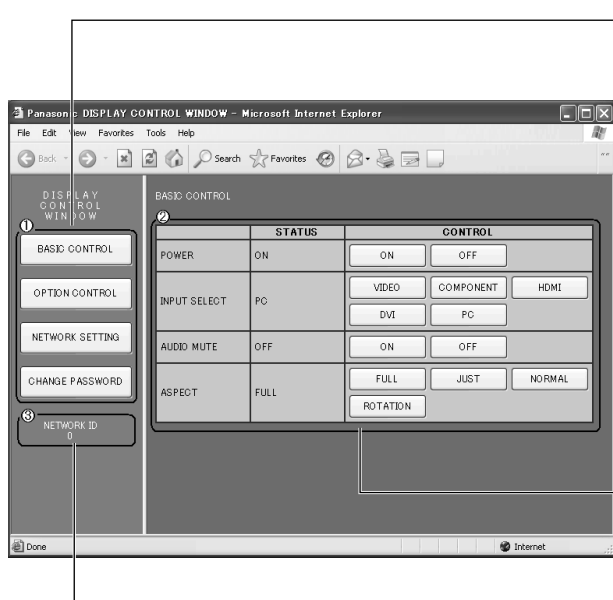
### Notes:

- The password used here is the same password used for command control and the PJLink™ security authentication.
- Default user name and password are as follows:  
User name: user1  
Password: Panasonic
- The password can be changed on the Password Setup screen after logging in (see page 65). The user name cannot be changed.
- Under no circumstances, Panasonic Corporation or its associated companies will ask customers their password directly.  
Even if you are asked directly, please do not reveal your password.

# Using Web Browser Control

## TOP screen structure of the Web browser control

After logging in, the TOP screen of the Web browser control is displayed.



### ① Menu

Menu items are displayed. When a button is clicked, setup screen of each item is displayed.

Item	Details
BASIC CONTROL	BASIC CONTROL screen is displayed. (see below)
OPTION CONTROL	OPTION CONTROL screen is displayed. (see below)
NETWORK SETTING	Network Setup screen is displayed. (see page 65)
CHANGE PASSWORD	Password setup screen is displayed. (see page 65)

② According to the selected item from the main menu, setup status or set items are displayed.

### ③ Network ID information

ID to identify the unit is displayed.

## Display Control (BASIC CONTROL/OPTION CONTROL Screen)

Click BASIC CONTROL or OPTION CONTROL from the menu. Various controls of the unit can be set.

### BASIC CONTROL screen

Click BASIC CONTROL from the menu. Unit status and buttons to change settings are displayed.

	STATUS	CONTROL
POWER	ON	ON OFF
INPUT SELECT	PC	VIDEO COMPONENT HDMI DVI PC
AUDIO MUTE	OFF	ON OFF
ASPECT	FULL	FULL JUST NORMAL ROTATION

Item	Details
POWER	Switch ON/OFF of the unit power.
INPUT SELECT	Switch the input signals. Displayed buttons vary according to the connection status of the video device.
AUDIO MUTE	Switch ON/OFF of the sound mute.
ASPECT	Switch the screen modes

### OPTION CONTROL screen

Click OPTION CONTROL from the menu. Command input field for command control of the unit is displayed.

COMMAND	<input type="text"/>
RESPONSE	<input type="text"/>
SEND	

Item	Details
COMMAND	Enter a command. Use the same command used for the serial control. (see page 15)
RESPONSE	Response from the unit is displayed.
SEND	Command is sent and run.

### Note:

After the settings are changed, it may take a while till the display status is displayed.



## NETWORK SETTING (Network Setup Screen)

Click NETWORK SETTING from the menu. Various settings of a network can be set. For the details of the setting items, please check NETWORK SETUP under the SET UP of the unit. (see page 53)

DHCP	<input type="radio"/> OFF <input type="radio"/> ON
IP ADDRESS	192.168.0.8
SUBNET MASK	255.255.255.0
GATEWAY	192.168.0.1
PORT	1024
LAN SPEED	<input type="radio"/> AUTO <input type="radio"/> 10 HALF <input type="radio"/> 10 FULL <input type="radio"/> 100 HALF <input type="radio"/> 100 FULL
NETWORK ID	0

**Notes:**

- To use a DHCP server, make sure the DHCP server is started.
- During a DHCP server is used, IP ADDRESS, SUBNET MASK, and GATEWAY values cannot be entered.
- When the set values are changed properly, “NETWORK SETTING CHANGED.” message and the changed set items are displayed.

Item	Details
DHCP	Set to ON when a DHCP server is used, or OFF when it is not used.
IP ADDRESS	Enter an IP address.
SUBNET MASK	Enter a subnet mask.
GATEWAY	Enter a gateway address.
PORT	Enter the port number used for command control. The available setting range is 1024 - 65535.
LAN SPEED	Set the connection speed of the LAN environment.
NETWORK ID	Set the ID to identify this unit. The available setting range is 0 - 99.
SAVE	Save the each set value.

## Password Setting (Password Setup Screen)

Click CHANGE PASSWORD from the menu. Password to access the Web browser control can be set. When the password is changed in this screen, the password used for command control and the PJLink™ security authentication is also changed.

OLD PASSWORD	*****
NEW PASSWORD	*****
NEW PASSWORD (RETYPE)	*****











**Notes:**

- The default password is “Panasonic”.
- Up to 32 alphanumeric characters can be used for a password.
- When the password is changed properly, “Password has changed.” message is displayed.

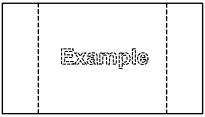
Item	Details
OLD PASSWORD	Enter the old password.
NEW PASSWORD	Enter the new password.
NEW PASSWORD (RETYPE)	Enter the password entered in “NEW PASSWORD” for confirmation.
SAVE	Save the new password. The confirmation screen is displayed. Click OK to change the password.

# Troubleshooting

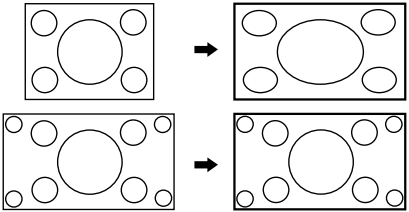
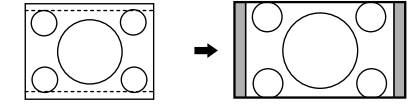
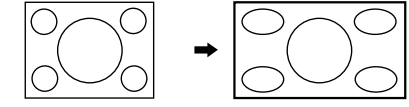
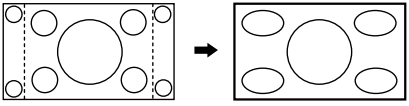
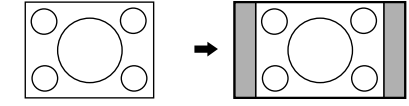
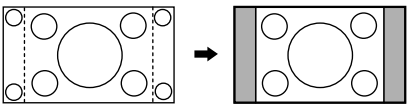
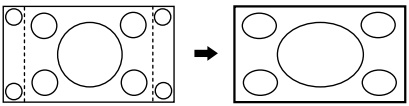
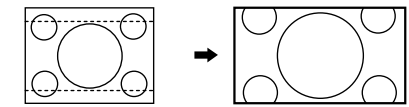
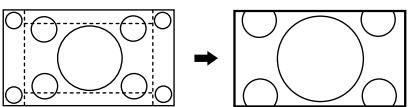
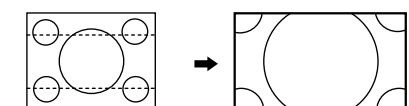
Before you call for service, determine the symptoms and make a few simple checks as shown below.

Symptoms		Checks
Picture	Sound	
 Interference	 Noisy Sound	Electrical Appliances Cars / Motorcycles Fluorescent light
 Normal Picture	 No Sound	Volume (Check whether the mute function has been activated on the remote control.)
 No Picture	 No Sound	Not plugged into AC outlet Not switched on PICTURE and BRIGHTNESS/Volume setting (Check by pressing the power switch or stand-by button on the remote control.)
 No Picture	 Normal Sound	If a signal with a non-applicable color system format, or frequency is input, only the input terminal indication is displayed.
 No Color	 Normal Sound	Color controls set at minimum level. (see page 29, 30) COLOR SYSTEM (see page 50)
No remote control operations can be performed.		Check whether the batteries have discharged completely and, if they have not, whether they were inserted properly. Check whether the remote control sensor is exposed to an outdoor light or a strong fluorescent light. Check whether the remote control designed specifically for use with the unit is being used. (The unit cannot be operated by any other remote control.)
A cracking sound is sometimes heard from the unit.		If there is nothing wrong with the picture or sound, this is the sound of the cabinet undergoing very slight contractions in response to changes in the room temperature. There are no adverse effects on the performance or other aspects.
The top or bottom of the picture on the screen is cut off when I use the zoom function.		Adjust the position of the picture on the screen.
Areas at the top and bottom of the screen where the image is missing appear when I use the zoom function.		When using a video software program (such as a cinema size program) with a screen wider than one in the 16:9 mode, blank areas separate from the images are formed at the top and bottom of the screen.
I can hear sounds coming from inside the unit.		When the power is turned on, a sound of the display panel being driven may be heard: This is normal and not indicative of malfunctioning.
Parts of the unit become hot.		Even when the temperature of parts of the front, top and rear panels has risen, these temperature rises will not pose any problems in terms of performance or quality.
Power automatically turns off unexpectedly.		Check the settings of "PC POWER MANAGEMENT", "DVI-D POWER MANAGEMENT", "NO SIGNAL POWER OFF" and "NO ACTIVITY POWER OFF" in the SET UP menu. Any of them may be set to "ON (ENABLE)". (see page 42)
Power indicator is blinking in red.		There is possibility of malfunction. Please contact an Authorized Service Center.
This Plasma Display uses special image processing.		Hence a slight time lag may occur between image and audio, depending on the type of input signal. However, this is not a malfunction.

## Plasma Display panel

Symptoms	Check
The screen darkens slightly when bright pictures with minimal movements are shown.	The screen will darken slightly when photos, still images of a computer or other pictures with minimal movements are shown for an extended period. This is done to reduce image retention on the screen and the shortening of the screen's service life: It is normal and not indicative of malfunctioning.
It takes a while for the picture to appear.	The unit digitally processes the various signals in order to reproduce esthetically pleasing images. As such, it sometimes takes a few moments for the picture to appear when the power has been turned on, when the input has been switched.
The edges of the images flicker.	Due to the characteristics of the system used to drive the panel, the edges may appear to flicker in the fast-moving parts of the images: This is normal and not indicative of malfunctioning.
The brightness on both sides of images in 4:3 mode changes.	When viewing the side panels at the "BRIGHT" or "MID" setting, the brightness on both sides may change depending on the kind of program shown: This is normal and not indicative of malfunctioning.
Some parts of the screen do not light up.	The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction.
 Image retention appears	Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display. Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode. <b>Note:</b> The permanent image retention on the Plasma Display resulting from fixed image use is not an operating defect and as such is not covered by the Warranty. This product is not designed to display fixed images for extended periods of time.
Whirring sounds can be heard from the display unit.	The display unit is fitted with a cooling fan to dissipate heat generated during normal use. The whirring sound is caused by rotation of the fan and is not a malfunction.

# List of Aspect Modes

Aspect mode		Picture → Enlarged screen	Description
All Aspect: On	Factory setting All Aspect: Off		
16:9	FULL		The display of the pictures fills the screen. In the case of SD signals, pictures with a 4:3 aspect ratio are enlarged horizontally, and displayed. This mode is suited to displaying anamorphic pictures with a 16:9 aspect ratio.
14:9	–		Letterbox pictures with a 14:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen vertically and is slightly smaller than the screen horizontally. The top and bottom edges of the pictures are cut off. Side panels are displayed at the left and right edges of the screen.
Just ----- Just1	JUST		Pictures with a 4:3 aspect ratio are enlarged horizontally so that the picture distortion is minimized. The display of the areas around the left and right edges of the screen is slightly elongated.
Just2	JUST		Pictures with a 4:3 aspect ratio are enlarged horizontally so that the picture distortion is minimized. The left and right edges of the pictures are cut off. The display of the areas around the left and right edges of the screen is slightly elongated.
4:3 ----- 4:3 (1)	4:3		Pictures with a 4:3 aspect ratio are displayed with their original aspect ratio. Side panels are displayed at the left and right edges of the screen.
4:3 (2)	4:3		Pictures with a 4:3 aspect ratio are displayed with their original aspect ratio. The left and right edges of the pictures are masked by side panels.
4:3 Full	H-FILL		Pictures with a 4:3 aspect ratio are enlarged horizontally so that their display fills the screen. The left and right edges of the pictures are cut off.
Zoom ----- Zoom1	ZOOM		Letterbox pictures with a 16:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen. The top and bottom edges of the pictures are cut off.
Zoom2	ZOOM		Letterbox pictures with a 16:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen. The top and bottom edges as well as the left and right edges of the pictures are cut off.
Zoom3	–		Letterbox pictures with a 2.35:1 aspect ratio are enlarged vertically and horizontally so that their display fills the screen vertically and is slightly larger than the screen horizontally. The top and bottom edges as well as the left and right edges of the pictures are cut off.

# Applicable Input Signals

\*Mark: Applicable input signal

	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	COMPONENT / RGB IN / PC IN (Dot clock (MHz))	DVI-D IN (Dot clock (MHz))	HDMI
1	525 (480) / 60i	15.73	59.94	* (13.5)	* (27.0)	*
2	525 (480) / 60p	31.47	59.94	* (27.0) *5	* (27.0)	*
3	625 (575) / 50i	15.63	50.00	* (13.5)		
4	625 (576) / 50i	15.63	50.00		* (27.0)	*
5	625 (575) / 50p	31.25	50.00	* (27.0)		
6	625 (576) / 50p	31.25	50.00		* (27.0)	*
7	750 (720) / 60p	45.00	60.00	* (74.25)	* (74.25)	*
8	750 (720) / 50p	37.50	50.00	* (74.25)	* (74.25)	*
9	1,125 (1,080) / 60p	67.50	60.00	* (148.5) *1	* (148.5)	*
10	1,125 (1,080) / 60i	33.75	60.00	* (74.25) *1	* (74.25)	*
11	1,125 (1,080) / 50p	56.26	50.00	* (148.5) *1	* (148.5)	*
12	1,125 (1,080) / 50i	28.13	50.00	* (74.25) *1	* (74.25)	*
13	1,125 (1,080) / 24sF	27.00	48.00	* (74.25) *2		
14	1,125 (1,080) / 30p	33.75	30.00	* (74.25) *1	* (74.25)	
15	1,125 (1,080) / 25p	28.13	25.00	* (74.25) *1	* (74.25)	
16	1,125 (1,080) / 24p	27.00	24.00	* (74.25) *1	* (74.25)	*
17	1,250 (1,080) / 50i	31.25	50.00	* (74.25) *3		
18	2,048 × 1,080 / 24sF *7	27.00	48.00			
19	2,048 × 1,080 / 24p *7	27.00	24.00			
20	640 × 400 @70 Hz	31.46	70.07	* (25.17)		
21	640 × 480 @60 Hz	31.47	59.94	* (25.18) *6	* (25.18)	*
22	640 × 480 @72 Hz	37.86	72.81	* (31.5)		
23	640 × 480 @75 Hz	37.50	75.00	* (31.5)		
24	640 × 480 @85 Hz	43.27	85.01	* (36.0)		
25	800 × 600 @56 Hz	35.16	56.25	* (36.0)		
26	800 × 600 @60 Hz	37.88	60.32	* (40.0)	* (40.0)	*
27	800 × 600 @72 Hz	48.08	72.19	* (50.0)		
28	800 × 600 @75 Hz	46.88	75.00	* (49.5)		
29	800 × 600 @85 Hz	53.67	85.06	* (56.25)		
30	852 × 480 @60 Hz	31.47	59.94	* (33.54) *6	* (34.24)	*
31	1,024 × 768 @50 Hz	39.55	50.00		* (51.89)	*
32	1,024 × 768 @60 Hz	48.36	60.00	* (65.0)	* (65.0)	*
33	1,024 × 768 @70 Hz	56.48	70.07	* (75.0)		
34	1,024 × 768 @75 Hz	60.02	75.03	* (78.75)		
35	1,024 × 768 @85 Hz	68.68	85.00	* (94.5)		
36	1,066 × 600 @60 Hz	37.64	59.94	* (53.0)	* (53.0)	*
37	1,152 × 864 @60 Hz	53.70	60.00		* (81.62)	*
38	1,152 × 864 @75 Hz	67.50	75.00	* (108.0)		
39	1,280 × 768 @60 Hz	47.70	60.00	* (80.14)		
40	1,280 × 960 @60 Hz	60.00	60.00	* (108.0)		
41	1,280 × 960 @85 Hz	85.94	85.00	* (148.5)		
42	1,280 × 1,024 @60 Hz	63.98	60.02	* (108.0)	* (108.0)	*
43	1,280 × 1,024 @75 Hz	79.98	75.03	* (135.0)		
44	1,280 × 1,024 @85 Hz	91.15	85.02	* (157.5)		
45	1,366 × 768 @50 Hz	39.55	50.00		* (69.92)	*
46	1,366 × 768 @60 Hz	48.36	60.00	* (86.71)	* (87.44)	*
47	1,400 × 1,050 @60 Hz	65.22	60.00		* (122.61)	*
48	1,600 × 1,200 @60 Hz	75.00	60.00	* (162.0)	* (162.0)	*
49	1,600 × 1,200 @65 Hz	81.25	65.00	* (175.5)		
50	1,920 × 1,080 @60 Hz	67.50	60.00	* (148.5) *4	* (148.5)	*
51	1,920 × 1,200 @60 Hz	74.04	59.95		* (154.0)	*
52	Macintosh13" (640 × 480)	35.00	66.67	* (30.24)		
53	Macintosh16" (832 × 624)	49.72	74.54	* (57.28)		
54	Macintosh21" (1,152 × 870)	68.68	75.06	* (100.0)		

\*1: Based on SMPTE 274M standard.

\*2: Based on SMPTE RP211 standard.

\*3: Based on SMPTE 295M standard.

\*4: The input signal is recognized as 1,125 (1,080) / 60p.

\*5: When selected the RGB format and 525p signal input to the PC IN terminal, it is recognized as VGA 60Hz signal.

\*6: When inputted VGA 60Hz format signal from the other than PC IN terminal, it is recognized as 525p signal.

\*7: Based on SMPTE 292M and 372M standards. These signals can be received when the Dual Link HD-SDI Terminal Board (TY-FB11DHD) is installed.


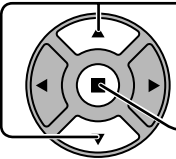
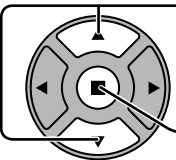
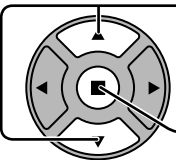
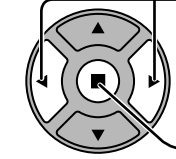
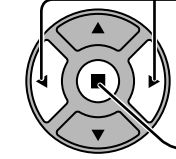
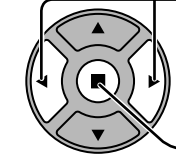
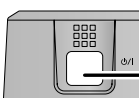
**Note:** Signals without above specification may not be displayed properly.

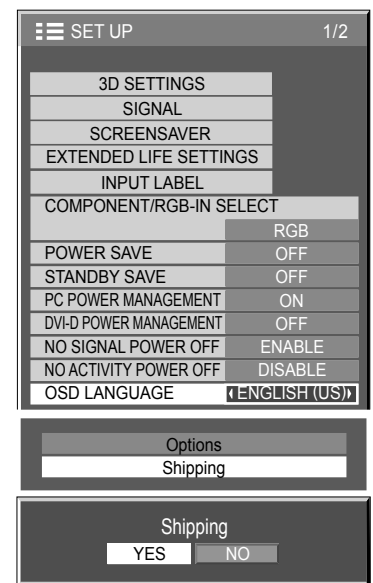
## Video input (VIDEO)

	Signal name	Horizontal frequency(kHz)	Vertical frequency(Hz)
1	NTSC	15.73	59.94
2	PAL	15.63	50.00
3	PAL60	15.73	59.94
4	SECAM	15.63	50.00
5	Modified NTSC	15.73	59.94

## Shipping condition

This function allows you to reset the unit to the factory setting.

- 1  Press to display the SET UP menu.
- 2  Press to select "OSD LANGUAGE".  
 Press for more than 3 seconds.
- 3  Press to select "Shipping".  
 Press to display the Shipping menu.  
 Press to select "YES".
- 4  Press to confirm.
- 5 Wait for 10 seconds.
- 6  Press the power switch (⏻/⏻) on main unit to turn the power off.



[from the unit]

- 1 Press the MENU button till the SET UP menu is displayed.
- 2 Press the Volume Up "+" or Down "-" button to select "OSD LANGUAGE".
- 3 Press and hold the ENTER button till the Shipping menu is displayed.
- 4 Press the Volume Up "+" or Down "-" button to select "YES".
- 5 Press the ENTER button and wait for 10 sec.
- 6 Press the power switch (⏻/⏻) on main unit to turn the power off.

# Command list of Weekly Command Timer

No.	Command	Control details
1	AAC:MENCLR	Audio Menu (CLEAR)
2	AAC:MENDYN	Audio Menu (DYNAMIC)
3	AAC:MENSTD	Audio Menu (STANDARD)
4	AAC:SURMON	Surround (ON)
5	AAC:SUROFF	Surround (OFF)
6	AMT:0	Audio Mute (OFF)
7	AMT:1	Audio Mute (ON)
8	-	-
9	-	-
10	AVL:00	Audio Volume (00)
11	AVL:10	Audio Volume (10)
12	AVL:20	Audio Volume (20)
13	AVL:30	Audio Volume (30)
14	AVL:40	Audio Volume (40)
15	AVL:50	Audio Volume (50)
16	AVL:60	Audio Volume (60)
17	DAM:FULL	Aspect (FULL)
18	DAM:JUST	Aspect (JUST)
19	DAM:NORM	Aspect (4:3)
20	-	-
21	DAM:ZOOM	Aspect (ZOOM)
22	-	-
23	-	-
24	-	-
25	-	-
26	-	-
27	-	-
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	-	-
35	-	-
36	-	-
37	-	-
38	-	-
39	IMS:SL1	Input select (SLOT INPUT)
40	IMS:S1A	Input select (SLOT INPUT A)
41	IMS:S1B	Input select (SLOT INPUT B)
42	IMS:VD1	Input select (VIDEO)
43	IMS:YP1	Input select (COMPONENT)
44	IMS:HM1	Input select (HDMI)
45	IMS:DV1	Input select (DVI)
46	IMS:PC1	Input select (PC)
47	-	-
48	-	-
49	-	-
50	-	-
51	-	-
52	-	-
53	-	-
54	-	-
55	OSP:SCR0	Screen Saver SCROLLING BAR ONLY (OFF)
56	OSP:SCR1	Screen Saver SCROLLING BAR ONLY (ON)
57	POF	Power OFF
58	PON	Power ON
59	SSC:FNC0	Screen Saver function (SCROLLING BAR ONLY)
60	SSC:FNC1	Screen Saver function (NEGATIVE IMAGE)
61	SSC:MOD0	Screen Saver (Mode (OFF))
62	SSC:MOD3	Screen Saver (Mode (ON))
63	VMT:0*	Picture Mute (OFF)
64	VMT:1*	Picture Mute (ON)

\* Picture Mute cannot be unlocked by powering off/on with the remote control. Turn off and on again with the button on the unit or enter the command VMT:0 to unlock Picture Mute.

# Specifications

	TH-42PF30U	TH-50PF30U
<b>Power Source</b>	110 - 127 V AC, 50/60 Hz	
<b>Power Consumption</b>		
Rated Power Consumption	390 W	475 W
Stand-by condition	Save OFF 0.7 W, Save ON 0.4 W	Save OFF 0.7 W, Save ON 0.4 W
Power off condition	0.2 W	0.2 W
<b>Plasma Display panel</b>	Drive method : AC type 42-inch, 16:9 aspect ratio	Drive method : AC type 50-inch, 16:9 aspect ratio
<b>Screen size</b>	36.2" (921 mm) (W) × 20.4" (518 mm) (H) × 41.6" (1,057 mm) (diagonal)	43.5" (1,105 mm) (W) × 24.4" (622 mm) (H) × 49.9" (1,268 mm) (diagonal)
(No.of pixels)	2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]	
<b>Operating condition</b>		
Temperature	32 °F - 104 °F (0 °C - 40 °C)	
Humidity	20 % - 80 %	
<b>Applicable signals</b>		
Color System	NTSC, PAL, PAL60, SECAM, Modified NTSC	
Scanning format	525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 750 (720) / 60p · 50p, 1125 (1080) / 60i · 60p · 50i · 50p · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i	
PC signals	VGA, SVGA, XGA, SXGA UXGA .... (compressed) Horizontal scanning frequency 15 - 110 kHz Vertical scanning frequency 48 - 120 Hz	
<b>Connection terminals</b>		
LAN	RJ45 10BASE-T/100BASE-TX, compatible with PLink™	
AV IN	VIDEO	BNC 1.0 Vp-p (75 Ω)
	AUDIO L-R	RCA Pin jack × 2 0.5 Vrms
	HDMI	TYPE A Connector
COMPONENT/RGB IN		
	Y/G	BNC with sync 1.0 Vp-p (75 Ω)
	P <sub>B</sub> /C <sub>B</sub> /B	BNC 0.7 Vp-p (75 Ω)
	P <sub>R</sub> /C <sub>R</sub> /R	BNC 0.7 Vp-p (75 Ω)
	AUDIO L-R	RCA Pin jack × 2 0.5 Vrms
DVI-D IN		DVI-D 24 Pin Content Protection Compliance with DVI Revision 1.0 Compatible with HDCP 1.1
	AUDIO	Stereo mini jack (M3) × 1 0.5 Vrms, Shared with PC IN
PC IN		High-Density Mini D-sub 15 Pin Y or G with sync 1.0 Vp-p (75 Ω) Y or G without sync 0.7 Vp-p (75 Ω) P <sub>B</sub> /C <sub>B</sub> /B: 0.7 Vp-p (75 Ω) P <sub>R</sub> /C <sub>R</sub> /R: 0.7 Vp-p (75 Ω) HD/V <sub>D</sub> : 1.0 - 5.0 Vp-p (high impedance) 0.5 Vrms, Shared with DVI-D IN
	AUDIO	Stereo mini jack (M3) × 1
SERIAL	External Control Terminal D-sub 9 Pin RS-232C compatible	
3D IR TRANSMITTER	for 3D IR TRANSMITTER	
3D SHUTTER OUT	M3 jack × 1	
	DC 8V OUT Center plus, for EIAJ 4mm plug	
EXT SP	Speaker Terminal 6 Ω, 16 W [8 W + 8 W] (10 % THD)	
<b>Dimensions (W × H × D)</b>	40.2" (1,020 mm) × 24.1" (610 mm) × 3.5" (89 mm)	47.7" (1,210 mm) × 28.5" (724 mm) × 3.5" (89 mm)
<b>Mass (weight)</b>		
main unit only	approx. 56.3 lbs	approx. 72.8 lbs
with speakers	approx. 65.1 lbs	approx. 83.8 lbs

**Note:**

Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.

## <Software Information for This Product>

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### Customer's Record

The model number and serial number of this product can be found on its back cover. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number \_\_\_\_\_

Serial Number \_\_\_\_\_

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